



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 1116491

TO: Jeffrey Parkin
Location: REM-3D39/3C18
Art Unit: 1648
Monday, March 15, 2004
Case Serial Number: 10/055524

From: Paul Schulwitz
Location: Biotech-Chem Library
REM-1A65
Phone: (571)272-2527

paul.schulwitz@uspto.gov

Search Notes

Examiner Parkin,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Paul Schulwitz
Technical Information Specialist
STIC Biotech/Chem Library
(571)272-2527

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On protein - protein search, using sw model
 Run on: March 12, 2004, 14:22:45 ; Search time 54 Seconds
 (without alignments)
 52.324 Million call updates/sec

Title: PARKIN524.PEP
 Perfect score: 46
 Sequence: 1 kpvtstqlll 10

Scoring table: BLOSUM62
 Gapop 10.0 , Gapext 0.5

Searched: 1586107 seqs, 282547505 residues

Total number of hits satisfying chosen parameters: 1586107

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : A_Genesed 29Jan04;*

1: geneseqp1980s;*
 2: geneseqp1990s;*
 3: geneseqp2000s;*
 4: geneseqp2001s;*
 5: geneseqp2002s;*
 6: geneseqp2003as;*
 7: geneseqp2003bs;*
 8: geneseqp2004as;*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	46	100.0	10 4	ABP16652
2	46	100.0	10 6	ABP166893
3	46	100.0	10 6	ABP170212
4	46	100.0	10 6	ABP170010
5	46	100.0	10 7	ADP96745
6	46	100.0	10 7	ADP96543
7	46	100.0	10 7	ADP96425
8	46	100.0	11 4	ABP17099
9	46	100.0	15 4	ABP24380
10	46	100.0	15 4	ABP24379
11	46	100.0	15 4	ABP24416
12	46	100.0	229 5	ABP48947
13	46	100.0	236 5	ABP15742
14	46	100.0	417 2	ABP43071
15	46	100.0	417 2	ABP37067
16	46	100.0	474 2	ABP37066
17	46	100.0	478 7	ABP39557
18	46	100.0	478 7	ABP39558
19	46	100.0	498 2	ABP37055
20	46	100.0	498 2	ABP37054
21	46	100.0	501 7	ABP39544
22	46	100.0	501 7	ABP39543
23	46	100.0	586 2	ABP49855
24	46	100.0	587 2	ABP49900
25	46	100.0	591 2	ABP49856

ALIGNMENTS

26	46	100.0	595 2	AAY29902	Aay29902 Human MCP
27	46	100.0	601 2	AAY29901	Aay29901 Human IP-
28	46	100.0	651 5	AAB84397	Aab84397 HIV ENV C
29	46	100.0	842 3	AAB69350	Aab69350 HIV-1 non
30	46	100.0	845 3	AAB69344	Aab69344 HIV-1 non
31	46	100.0	846 3	AAB69333	Aab69333 HIV-1 non
32	46	100.0	846 3	AAB69345	Aab69345 HIV-1 non
33	46	100.0	849 3	AAB69346	Aab69346 HIV-1 non
34	46	100.0	849 3	AAY96945	Aay96945 HIV synth
35	46	100.0	853 4	AAB82762	Aab82762 Ancestral
36	46	100.0	854 5	ABP05214	Abp05214 HIV Env 1
37	46	100.0	854 6	ABU6658	Abu6658 Human Imm
38	46	100.0	854 6	ABR55687	Abr55687 HIV isola
39	46	100.0	854 7	ADC1221	Adc1221 Protein o
40	46	100.0	855 3	ABP69351	Aab69351 HIV-1 non
41	46	100.0	856 2	ABP8283	Abb8283 gp41 of 1
42	46	100.0	857 3	AAR1261	Aar1261 HIV-1 str
43	46	100.0	857 3	ABP69355	Aab69355 HIV-1 non
44	46	100.0	858 5	AAM48951	Aam48951 HIV-1 sub
45	46	100.0	859 1	AAP81865	Aap81865 Sequence

ALIGNMENTS

RESULT 1	ABP1652	ABP1652 standard; peptide; 10 AA.
XX	XX	ABP1652;
XX	XX	AC
XX	XX	ABP1652;
XX	XX	DT
XX	XX	11-SEP-2003 (revised)
XX	XX	15-JUL-2002 (first entry)
DE	HIV B07	super motif env peptide #32.
XX	HIV	HIV: HIV-1; human immunodeficiency virus; env; pol; gag; nef; vpr; vpu; vif; tat; cytotoxic T lymphocyte; CTL; immune response; epitope; antigen; vaccine; HIV infection; immunisation; virucide.
XX	KW	KW
OS	Human immunodeficiency virus 1.	OS
PN	WO200124810-A1.	PN
XX	12-APR-2001.	XX
PD	05-OCT-2000; 2000WO-US027766.	PD
PP	05-OCT-1999; 99US-00412863.	PP
PR	ABP16552	PR
XX	ABP16552 HIV B07 s	XX
XX	Abu6933 Human imm	XX
XX	Abu70212 Human imm	XX
XX	Abu70010 Human imm	XX
XX	Add96745 HIV-1 cro	XX
XX	Add96543 HIV-1 cro	XX
XX	Add96426 HIV-1 cro	XX
XX	Abp17099 HIV B27 s	XX
XX	Abp24380 HIV DR su	XX
XX	Abp24379 HIV DR su	XX
PT	Sette A, Sidney J, Southwood S, Livingston BD, Cheasnut R; Baker DM, Celis E, Kubo RT, Grey HM;	PT
PI		PI
XX	WPI: 2001-354887/37.	XX
CC	Claim 32; Page 209; 448p; English.	CC
CC	The present invention describes a composition (I) comprising a prepared human immunodeficiency virus-1 (HIV-1) group comprising an amino acid sequence selected from 51 defined amino acid sequences (ABL25347 to ABL25397). (I) has virucide activity and can be used in vaccines. (I) may be used for immunising subjects against HIV-1 infections. The use of group-based vaccines has several advantages over traditional vaccines, particularly when compared to the use of whole antigens in vaccine compositions. There is evidence that the immune response to whole antigens is directed largely toward variable regions of the antigen, allowing for immune escape due to mutations. The groups for inclusion in an group-based vaccine may be selected from conserved regions of viral or	CC

CC tumour-associated antigens, which therefore reduces the likelihood of escape mutants. Furthermore, immunosuppressive groups that may be present in whole antigens can be avoided with the use of group-based vaccines. An additional advantage of an group-based vaccine approach is the ability to combine selected groups (CIL and RTL), and further, to modify the composition of the groups, for example, enhanced immunogenicity. Accordingly, the immune response can be modulated, as appropriate, for the target disease. Similar engineering of the response is not possible with traditional approaches. ABP1101 to ABP25412 represent peptide sequences used in the exemplification of the present invention. (Updated on 11-SEP-2003 to standardise OS field)

SQ Sequence 10 AA;

Query Match 100.0%; Score 46; DB 4; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.01;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQQL 10

Db 1 KPVVSTQQL 10

RESULT 2

ABU69893 standard; peptide; 10 AA.

ID ABU69893;

AC XX

DT 23-OCT-2003 (revised)

DT 05-JUN-2003 (first entry)

DE XX

DE Human immunodeficiency virus 1 (HIV1) vaccine candidate peptide #211.

ID XX

AC XX

AC Human immunodeficiency virus; HIV; vaccine; immunological excipient;

KW XX

KW anti-HIV immune response; T cell response; viral multiplication inhibitor; chronic viraemia; AIDS.

OS XX

OS Human immunodeficiency virus 1.

PN XX

PN US2002182222-A1.

PR XX

PR 05-DEC-2002.

PR XX

PR 26-OCT-2001; 2001US-00055524.

PR XX

PR 10-JUL-1998; 98US-0092346P.

PR XX

PR 08-JAN-1999; 99US-0115145P.

PR XX

PR 23-APR-1999; 99US-0130677P.

PR XX

PR 09-JUL-1999; 99US-00351036.

PR XX

PR (GROO/) GROOT A. D.

PR XX

PR Groot AD;

PR XX

PR WPI; 2003-352642/33.

PR XX

PR New vaccine comprising human immunodeficiency virus (HIV) vaccine

PT XX

PT candidate peptides, useful as antigens for raising anti-HIV immune

PT responses, such as T cell responses, and for inducing antibodies and

PT XX

PT impairing viral multiplication.

PS XX

PS Claim 1; Page 19; 32pp; English.

PS XX

PS DR 2003-352642/33.

PS XX

PS PT New vaccine comprising human immunodeficiency virus (HIV) vaccine

PT XX

PT candidate peptides, useful as antigens for raising anti-HIV immune

PT responses, such as T cell responses, and for inducing antibodies and

PT XX

PT impairing viral multiplication.

PS XX

PS Claim 1; Page 19; 32pp; English.

CC of a human immunodeficiency virus 1 (HIV1) vaccine candidate peptide. (Updated on 23-OCT-2003 to standardise OS field)

CC Sequence 10 AA;

CC Query Match 100.0%; Score 46; DB 6; Length 10;

CC Best Local Similarity 100.0%; Pred. No. 0.01;

CC Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CC Qy 1 KPVVSTQQL 10

CC Db 1 KPVVSTQQL 10

RESULT 3

ABU70212 standard; peptide; 10 AA.

ID ABU70212

AC XX

DT ABU70212;

DT XX

DT 23-OCT-2003 (revised)

DT 05-JUN-2003 (first entry)

XX Human immunodeficiency virus 1 (HIV1) vaccine candidate peptide #530.

XX Human immunodeficiency virus; HIV; vaccine; immunological excipient;

KW XX

KW anti-HIV immune response; T cell response; viral multiplication inhibitor; chronic viraemia; AIDS.

OS XX

OS Human immunodeficiency virus 1.

PN XX

PN US2002182222-A1.

PR XX

PR 05-DEC-2002.

PR XX

PR 26-OCT-2001; 2001US-00055524.

PR XX

PR 10-JUL-1998; 98US-0092346P.

PR XX

PR 08-JAN-1999; 99US-0115145P.

PR XX

PR 23-APR-1999; 99US-0130677P.

PR XX

PR 09-JUL-1999; 99US-00351036.

PR XX

PR (GROO/) GROOT A. D.

PR XX

PR Groot AD;

PR XX

PR WPI; 2003-352642/33.

PR XX

PR New vaccine comprising human immunodeficiency virus (HIV) vaccine

PT XX

PT candidate peptides, useful as antigens for raising anti-HIV immune

PT responses, such as T cell responses, and for inducing antibodies and

PT XX

PT impairing viral multiplication.

PS XX

PS Claim 1; Page 19; 32pp; English.

PS XX

PS DR 2003-352642/33.

PS XX

PS PT New vaccine comprising a human immunodeficiency virus (HIV) vaccine

PT XX

PT candidate peptide containing an amino acid sequence

PT XX

PT selected from 669 amino acid sequences given in the specification, in an

PT XX

PT immunological excipient. The HIV vaccine peptides are useful as antigens

PT XX

PT for raising anti-HIV immune responses, such as T cell responses, and for

PT XX

PT inducing antibodies that react with HIV-1 and impairing viral

PT XX

PT multiplication in vivo. These antibodies reduce viral multiplication

PT XX

PT during any initial acute infection with HIV-1 and minimise chronic

PT XX

PT viraemia or progression leading to AIDS. This is the amino acid sequence

PT XX

PT for raising anti-HIV immune responses, such as T cell responses, and for

PT XX

PT inducing antibodies that react with HIV-1 and impairing viral

PT XX

PT multiplication in vivo. These antibodies reduce viral multiplication

PT XX

PT during any initial acute infection with HIV-1 and minimise chronic

PT XX

PT viraemia or progression leading to AIDS. This is the amino acid sequence

SQ Sequence 10 AA;

Query Match 100.0%; Score 46; DB 6; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.01;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQQL 10

Db 1 KPVVSTQQL 10

SQ Sequence 10 AA;

Query Match 100.0%; Score 46; DB 6; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.01;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQQL 10

Db 1 KPVVSTQQL 10

SQ Sequence 10 AA;

Query Match 100.0%; Score 46; DB 6; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.01;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQQL 10

Db 1 KPVVSTQQL 10

SQ Sequence 10 AA;

Query Match 100.0%; Score 46; DB 6; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.01;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQQL 10

Db 1 KPVVSTQQL 10

SQ Sequence 10 AA;

Query Match 100.0%; Score 46; DB 6; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.01;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQQL 10

Db 1 KPVVSTQQL 10

SQ Sequence 10 AA;

Query Match 100.0%; Score 46; DB 6; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.01;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQQL 10

Db 1 KPVVSTQQL 10

SQ Sequence 10 AA;

Query Match 100.0%; Score 46; DB 6; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.01;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQQL 10

Db 1 KPVVSTQQL 10

SQ Sequence 10 AA;

Query Match 100.0%; Score 46; DB 6; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.01;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQQL 10

Db 1 KPVVSTQQL 10

Qy	1	KPVVSTQLL	1-0	AC	ADD6745;
Db	1	KPVVSTQLL	1-0	XX	
RESULT 4				DT	29-JAN-2004 (first entry)
ABU0010				XX	
ID				DE	HIV-1 cross-clade candidate peptide #530.
ABU0010 standard; peptide; 10 AA.				XX	
XX				XX	
AC				XX	
ABU0010;				XX	
XX				XX	
DT	23-OCT-2003 (revised)			XX	
DT	05-JUN-2003 (first entry)			XX	
DE	Human immunodeficiency virus 1 (HTLV) vaccine candidate peptide #328.			XX	
XX				XX	
KW	Human immunodeficiency virus; HIV; vaccine; immunological excipient;			XX	
KW	anti-HIV immune response; T cell response;			XX	
KW	viral multiplication inhibitor; chronic viraemia; AIDS.			XX	
OS	Human immunodeficiency virus 1.			OS	
XX				XX	
PN	US200218222-A1.			PN	
XX				XX	
PD	05-DEC-2002.			XX	
XX				XX	
PP	26-OCT-2001; 2001US-00055524.			PD	
XX				25-SEP-2003.	
PR	10-JUL-1998; 98US-0092346P.			XX	
PR	08-JAN-1999; 99US-0115145P.			XX	
PR	23-APR-1999; 99US-0130677P.			XX	
PR	09-JUL-1999; 99US-00351036.			XX	
PA	(GROU/.) GROOT A.			PR	
XX				XX	
PI	Groot AD;			PA	(DEGR/.) DEGROOT A.
XX				XX	
DR	WPI; 2003-352642/33.			PI	
XX				XX	
PR	New vaccine comprising human immunodeficiency virus (HIV) vaccine			DR	
PT	candidate peptides, useful as antigens for raising anti-HIV immune			XX	
PT	responses, such as T cell responses, and for inducing antibodies and			PT	New cross-clade HIV candidate peptide that binds a human major
PT	impairing viral multiplication.			PT	histocompatibility complex binding matrix motif or activates T-cells from
XX				PT	HIV positive patients, useful for preventing or treating HIV infection.
PS	Example 3; SEQ ID NO 530; 146pp; English.			XX	
XX				PS	
CC	The present invention relates to HIV-1 cross-clade candidate peptides			XX	
CC	comprising a sequence of about 8-50 amino acids, the sequence having			CC	
CC	complete, sequential sequence identity with a partial HIV-1 amino acid			CC	
CC	sequence that is absolutely conserved across at least 2 clades of HIV.			CC	
CC	The HIV-1 cross-clade candidate peptides possess at least one of the			CC	
CC	biological properties selected from (i) the ability to bind a human major			CC	
CC	histocompatibility complex (MHC) binding matrix motif for a human MHC			CC	
CC	allele, (ii) the ability to bind MHC human leukocyte antigen (HLA) in the			CC	
CC	T2 in vitro peptide binding assay, and (iii) the ability to activate T-			CC	
CC	cells from HIV positive patients in at least one in vitro assay. The			CC	
CC	invention also discloses a pharmaceutical composition comprising the			CC	
CC	above peptide, and methods for the production and use of the cross-clade			CC	
CC	peptides. The composition and methods are useful in preventing or			CC	
CC	treating HIV infection. The present sequence represents a HIV-1 cross-			CC	
CC	clade candidate peptide.			XX	
SQ	Sequence 10 AA;			XX	
Query Match	100.0%	Score 46	DB 6	Length 10;	
Best Local Similarity	100.0%	Pred. No. 0.01;			
Matches	10;	Mismatches	0;	Indels	0;
Qy	1	KPVVSTQLL	10	Gaps	0;
Db	1	KPVVSTQLL	10		
RESULT 5					
ADD96745					
ID	ADD96745 standard; peptide; 10 AA.				
XX					
RESULT 6					
ADD96543					
ID	ADD96543 standard; peptide; 10 AA.				
XX					
AC	ADD6543;				
XX					
DT	29-JAN-2004 (first entry)				
XX					
DE	HIV-1 cross-clade candidate peptide #328.				
DE					
KW	HIV-1; cross-clade candidate peptide; HIV clade;				
XX					

KW major histocompatibility complex; MHC; human leukocyte antigen; HLA;
 XX T-cell activation; HIV positive patient; HIV infection; anti-HIV.
 OS Human immunodeficiency virus 1.
 XX
 PN US2003180314-A1.
 XX 25-SEP-2003.
 XX PD 22-JUL-2002; 2002US-00200708.
 XX PP 10-JUL-1998; 98US-0023346P.
 XX PR 08-JAN-1999; 99US-0115145P.
 XX PR 23-APR-1999; 99US-0130677P.
 XX PR 09-JUL-1999; 99US-00351036.
 XX PA (DEGR/-) DEGROOT A.
 XX PI Degroot A;
 XX DR WPI; 2003-852210/79.
 XX PT New cross-clade HIV candidate peptide that binds a human major
 PT histocompatibility complex binding matrix motif or activates T-cells from
 PT HIV positive patients, useful for preventing or treating HIV infection.
 XX PS Example 3; SEQ ID NO 328; 146pp; English.
 XX CC The present invention relates to HIV-1 cross-clade candidate peptides
 CC comprising a sequence of about 8-50 amino acids, the sequence having
 CC a complete, sequential sequence identity with a partial HIV-1 amino acid
 CC sequence that is absolutely conserved across at least 2 clades of HIV.
 CC The HIV-1 cross-clade candidate peptides possess at least one of the
 CC biological properties selected from (i) the ability to bind a human major
 CC histocompatibility complex (MHC) binding matrix motif for a human MHC
 CC allele; (ii) the ability to bind MHC human leukocyte antigen (HLA) in the
 CC T2 in vitro peptide binding assay; and (iii) the ability to activate T-
 CC cells from HIV positive patients in at least one in vitro assay. The
 CC invention also discloses a pharmaceutical composition comprising the
 CC above peptide, and methods for the production and use of the cross-clade
 CC peptides. The composition and methods are useful in preventing or
 CC treating HIV infection. The present sequence represents a HIV-1 cross-
 CC clade candidate peptide.
 XX SQ Sequence 10 AA;
 XX Query Match 100.0%; Score 46; DB 7; Length 10;
 XX Best Local Similarity 100.0%; Prod. No. 0.01;
 XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX QY 1 KPVNSTQLL 10
 XX Db 1 KPVNSTQLL 10
 XX
 RESULT 7
 ADD96425
 XX ID ADD96426 standard; Peptide; 10 AA.
 XX AC ADD96426;
 XX DT 29-JAN-2004 (first entry)
 XX DE HIV-1 cross-clade candidate peptide #211.
 XX KW HIV-1; cross-clade candidate peptide; HIV clade;
 KW major histocompatibility complex; MHC; human leukocyte antigen; HLA;
 KW T-cell activation; HIV positive patient; HIV infection; anti-HIV.
 XX OS Human immunodeficiency virus 1.
 XX PN US2003180314-A1.

XX PD 25-SEP-2003.
 XX XX PP 22-JUL-2002; 2002US-00200708.
 XX XX PR 10-JUL-1998; 98US-0023346P.
 XX XX PR 08-JAN-1999; 99US-0115145P.
 XX XX PR 23-APR-1999; 99US-0130677P.
 XX XX PR 09-JUL-1999; 99US-00351036.
 XX XX PA (DEGR/-) DEGROOT A.
 XX XX PI Degroot A;
 XX XX DR WPI; 2003-852210/79.
 XX XX PT New cross-clade HIV candidate peptide that binds a human major
 PT histocompatibility complex binding matrix motif or activates T-cells from
 PT HIV positive patients, useful for preventing or treating HIV infection.
 XX XX PS Example 3; SEQ ID NO 211; 146pp; English.
 XX XX CC The present invention relates to HIV-1 cross-clade candidate peptides
 CC comprising a sequence of about 8-50 amino acids, the sequence having
 CC a complete, sequential sequence identity with a partial HIV-1 amino acid
 CC sequence that is absolutely conserved across at least 2 clades of HIV.
 CC The HIV-1 cross-clade candidate peptides possess at least one of the
 CC biological properties selected from (i) the ability to bind a human major
 CC histocompatibility complex (MHC) binding matrix motif for a human MHC
 CC allele; (ii) the ability to bind MHC human leukocyte antigen (HLA) in the
 CC T2 in vitro peptide binding assay; and (iii) the ability to activate T-
 CC cells from HIV positive patients in at least one in vitro assay. The
 CC invention also discloses a pharmaceutical composition comprising the
 CC above peptide, and methods for the production and use of the cross-clade
 CC peptides. The composition and methods are useful in preventing or
 CC treating HIV infection. The present sequence represents a HIV-1 cross-
 CC clade candidate peptide.
 XX XX SQ Sequence 10 AA;
 XX XX Query Match 100.0%; Score 46; DB 7; Length 10;
 XX XX Best Local Similarity 100.0%; Prod. No. 0.01;
 XX XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX XX QY 1 KPVNSTQLL 10
 XX XX Db 1 KPVNSTQLL 10
 XX XX
 RESULT 8
 ABP17099
 XX ID ABP17099 standard; peptide; 11 AA.
 XX AC ABP17099;
 XX DT 11-SEP-2003 (revised)
 DT 15-JUL-2002 (first entry)
 XX DE HIV B27 super motif env peptide #124.
 XX KW HIV; HIV-1; human immunodeficiency virus; env; pol; gag; nef; vpr; vpu;
 KW vif; tat; cytotoxic T lymphocyte; CTL; immune response; epitope; antigen;
 KW vaccine; HIV infection; immunization; virucide.
 XX OS Human immunodeficiency virus 1.
 XX PN WO200124810-A1.
 XX PD 12-APR-2001.
 XX XX PP 05-OCT-2000; 2000WO-US027766.
 XX PR 05-OCT-1999; 99US-00412863.

PA (EPIM-) EPIMMUNE INC.
 XX
 PI Sette A, Sidney J, Southwood S, Livingston BD, Cheanut R;
 PI Baker DM, Celis E, Kubo RT, Grey HM;
 XX
 DR WPI; 2001-354887/37.
 XX
 PT Vaccine compositions comprising human immunodeficiency virus-1 (HIV-1)
 PT peptide groups, useful for vaccinating against HIV-1.
 XX
 PS Claim 32; Page 219; 448pp; English.
 XX
 CC The present invention describes a composition (I) comprising a prepared
 CC human immunodeficiency virus-1 (HIV-1) group comprising an amino acid
 CC sequence selected from 51 defined amino acid sequences (ABU25347 to
 ABP25397). (I) has virucide activity and can be used in vaccines. (I) may
 CC be used for immunising subjects against HIV-1 infections. The use of
 CC group-based vaccines has several advantages over traditional vaccines,
 CC particularly when compared to the use of whole antigens in vaccine
 CC compositions. There is evidence that the immune response to whole
 CC antigens is directed largely toward variable regions of the antigen,
 CC allowing for immune escape due to mutations. The groups for inclusion in
 CC an group-based vaccine may be selected from conserved regions of viral or
 CC tumour-associated antigens, which therefore reduces the likelihood of
 CC escape mutants. Furthermore, immunosuppressive groups that may be present
 CC in whole antigens can be avoided with the use of group-based vaccines. An
 CC additional advantage of an group-based vaccine approach is the ability to
 CC combine selected groups (CTL and HTL), and further, to modify the
 CC composition of the groups, achieving, for example, enhanced
 CC immunogenicity. Accordingly, the immune response can be modulated, as
 CC appropriate, for the target disease. Similar engineering of the response
 CC is not possible with traditional approaches. ABP1501 to ABP25412
 CC represent peptide sequences used in the exemplification of the present
 CC invention. (Updated on 11-SEP-2003 to standardise OS field)
 XX
 SQ Sequence 11 AA:

Query Match 100.0%; Score 46; DB 4; Length 11;
 Best Local Similarity 100.0%; Pred. No. 0.011; Mismatches 0; Indels 0; Gaps 0;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQQLL 10
 ||||| | | | | |
 Db 2 KPVVSTQQLL 11

RESULT 9

ID ABP24380 standard; peptide; 15 AA.
 XX
 AC ABP24380;

DT 11-SEP-2003 (revised)
 DT 15-JUL-2002 (first entry)

XX
 DE HIV DR super motif env peptide #2.

XX
 HIV; HIV-1; human immunodeficiency virus; env; pol; gag; nef; vpr; vpu; vif; tat; cytotoxic T lymphocyte; CTL; immune response; epitope; antigen; vaccine; HIV infection; immunisation; virucide.

XX
 OS Human immunodeficiency virus 1.
 OS WO200124810-A1.
 XX
 PD 12-APR-2001.

XX
 05-OCT-2000; 2000WO-US027766.

XX
 05-OCT-1999; 99US-00412863.

XX
 (EPIM-) EPIMMUNE INC.

PI Sette A, Sidney J, Southwood S, Livingston BD, Cheanut R;
 PI Baker DM, Celis E, Kubo RT, Grey HM;
 XX
 DR WPI; 2001-354887/37.
 XX
 PT Vaccine compositions comprising human immunodeficiency virus-1 (HIV-1)
 PT peptide groups, useful for vaccinating against HIV-1.
 XX
 PS Claim 32; Page 369; 448pp; English.
 XX
 CC The present invention describes a composition (I) comprising a prepared
 CC human immunodeficiency virus-1 (HIV-1) group comprising an amino acid
 CC sequence selected from 51 defined amino acid sequences (ABU25347 to
 ABP25397). (I) has virucide activity and can be used in vaccines. (I) may
 CC be used for immunising subjects against HIV-1 infections. The use of
 CC group-based vaccines has several advantages over traditional vaccines,
 CC particularly when compared to the use of whole antigens in vaccine
 CC compositions. There is evidence that the immune response to whole
 CC antigen is directed largely toward variable regions of the antigen,
 CC allowing for immune escape due to mutations. The groups for inclusion in
 CC an group-based vaccine may be selected from conserved regions of viral or
 CC tumour-associated antigens, which therefore reduces the likelihood of
 CC escape mutants. Furthermore, immunosuppressive groups that may be present
 CC in whole antigens can be avoided with the use of group-based vaccines. An
 CC additional advantage of an group-based vaccine approach is the ability to
 CC combine selected groups (CTL and HTL), and further, to modify the
 CC composition of the groups, achieving, for example, enhanced
 CC immunogenicity. Accordingly, the immune response can be modulated, as
 CC appropriate, for the target disease. Similar engineering of the response
 CC is not possible with traditional approaches. ABP1501 to ABP25412
 CC represent peptide sequences used in the exemplification of the present
 CC invention. (Updated on 11-SEP-2003 to standardise OS field)
 XX
 SQ Sequence 15 AA;

Query Match 100.0%; Score 46; DB 4; Length 15;
 Best Local Similarity 100.0%; Pred. No. 0.016; Mismatches 0; Indels 0; Gaps 0;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQQLL 10
 ||||| | | | | |
 Db 2 KPVVSTQQLL 11

RESULT 10

ID ABP24379
 XX
 AC ABP24379;

DT 11-SEP-2003 (revised)
 DT 15-JUL-2002 (first entry)

XX
 DE HIV DR super motif env peptide #1.

XX
 HIV; HIV-1; human immunodeficiency virus; env; pol; gag; nef; vpr; vpu; vif; tat; cytotoxic T lymphocyte; CTL; immune response; epitope; antigen; vaccine; HIV infection; immunisation; virucide.

XX
 OS Human immunodeficiency virus 1.
 OS WO200124810-A1.

XX
 12-APR-2001.

XX
 05-OCT-2000; 2000WO-US027766.

XX
 05-OCT-1999; 99US-00412863.

XX
 (EPIM-) EPIMMUNE INC.

PI Sette A, Sidney J, Southwood S, Livingston BD, Cheanut R;
 PI Baker DM, Celis E, Kubo RT, Grey HM;
 XX
 DR WPI; 2001-354887/37.
 XX
 PT Vaccine compositions comprising human immunodeficiency virus-1 (HIV-1)
 PT peptide groups, useful for vaccinating against HIV-1.
 XX
 PS Claim 32; Page 219; 448pp; English.
 XX
 CC The present invention describes a composition (I) comprising a prepared
 CC human immunodeficiency virus-1 (HIV-1) group comprising an amino acid
 CC sequence selected from 51 defined amino acid sequences (ABU25347 to
 ABP25397). (I) has virucide activity and can be used in vaccines. (I) may
 CC be used for immunising subjects against HIV-1 infections. The use of
 CC group-based vaccines has several advantages over traditional vaccines,
 CC particularly when compared to the use of whole antigens in vaccine
 CC compositions. There is evidence that the immune response to whole
 CC antigen is directed largely toward variable regions of the antigen,
 CC allowing for immune escape due to mutations. The groups for inclusion in
 CC an group-based vaccine may be selected from conserved regions of viral or
 CC tumour-associated antigens, which therefore reduces the likelihood of
 CC escape mutants. Furthermore, immunosuppressive groups that may be present
 CC in whole antigens can be avoided with the use of group-based vaccines. An
 CC additional advantage of an group-based vaccine approach is the ability to
 CC combine selected groups (CTL and HTL), and further, to modify the
 CC composition of the groups, achieving, for example, enhanced
 CC immunogenicity. Accordingly, the immune response can be modulated, as
 CC appropriate, for the target disease. Similar engineering of the response
 CC is not possible with traditional approaches. ABP1501 to ABP25412
 CC represent peptide sequences used in the exemplification of the present
 CC invention. (Updated on 11-SEP-2003 to standardise OS field)

XX
DR
XX
WPI; 2001-354887/37.

XX
PT
Vaccine compositions comprising human immunodeficiency virus-1 (HIV-1)
XX
PT peptide groups, useful for vaccinating against HIV-1.
XX
PS
Claim 32; Page 369; 448pp; English.

CC
The present invention describes a composition (I) comprising a prepared
CC human immunodeficiency virus-1 (HIV-1) group comprising an amino acid
CC sequence selected from 51 defined amino acid sequences (ABL25347 to
CC ABP2397). (I) has virucide activity and can be used in vaccines. (I) may
be used for immunising subjects against HIV-1 infections. The use of
CC group-based vaccines has several advantages over traditional vaccines,
CC particularly when compared to the use of whole antigens in vaccine,
CC compositions. There is evidence that the immune response to whole
CC antigens is directed largely toward variable regions of the antigen,
CC allowing for immune escape due to mutations. The groups for inclusion in
CC an group-based vaccine may be selected from conserved regions of viral or
CC tumour-associated antigens, which therefore reduces the likelihood of
CC escape mutants. Furthermore, immunosuppressive groups that may be present
CC in whole antigens can be avoided with the use of group-based vaccines. An
CC additional advantage of an group-based vaccine approach is the ability to
CC combine selected groups (CTL and HTL), and further, to modify the
CC composition of the groups, achieving, for example, enhanced, to modify the
CC immunogenicity. Accordingly, the immune response can be modulated, as
CC appropriate, for the target disease. Similar engineering of the response
CC is not possible with traditional approaches. ABP11501 to ABP25412
CC represent peptide sequences used in the exemplification of the present
CC invention. (Updated on 11-SEP-2003 to standardise OS field)
XX
SQ Sequence 15 AA;

Query Match 100.0%; Score 46; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.016; Mismatches 0; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Ov 1 KPVVSTQLL 10
Db 1 KPVVSTQLL 10

RESULT 11
ID ABL25347

ID ABL25347 standard; peptide; 15 AA.
XX
AC ABP24416;
XX
DT 11-SEP-2003 (revised)
DT 15-JUL-2002 (first entry)
DB HIV DR super motif env peptide #38.

XX HIV; HIV-1; human immunodeficiency virus; env; pol; gag; nef; vpr; vpu; vif; tat; cytotoxic T lymphocyte; CTL; immune response; epitope; antigen; vaccine; HIV infection; immunisation; virucide. OS Human immunodeficiency virus 1.

XX Human immunodeficiency virus 1.

XX WO200124810-A1.

XX PD 12-APR-2001.

XX PF 05-OCT-2000; 2000WO-US027766.

XX PR 05-OCT-1999; 99US-00412863.

XX PA (EPIM-) EPIIMMUNE INC.

XX Sette A, Sidney J, Southwood S, Livingston BD, Chesnut R, Baker DM, Celis E, Kubo RT, Grey HM; WPI; 2001-354887/37.

XX
PT
Vaccine compositions comprising human immunodeficiency virus-1 (HIV-1)
XX
PT peptide groups, useful for vaccinating against HIV-1.
XX
PS
Claim 32; Page 369; 448pp; English.

CC
The present invention describes a composition (I) comprising a prepared
CC human immunodeficiency virus-1 (HIV-1) group comprising an amino acid
CC sequence selected from 51 defined amino acid sequences (ABL25347 to
CC ABP2397). (I) has virucide activity and can be used in vaccines. (I) may
be used for immunising subjects against HIV-1 infections. The use of
CC group-based vaccines has several advantages over traditional vaccines,
CC particularly when compared to the use of whole antigens in vaccine,
CC compositions. There is evidence that the immune response to whole
CC antigens is directed largely toward variable regions of the antigen,
CC allowing for immune escape due to mutations. The groups for inclusion in
CC an group-based vaccine may be selected from conserved regions of viral or
CC tumour-associated antigens, which therefore reduces the likelihood of
CC escape mutants. Furthermore, immunosuppressive groups that may be present
CC in whole antigens can be avoided with the use of group-based vaccines. An
CC additional advantage of an group-based vaccine approach is the ability to
CC combine selected groups (CTL and HTL), and further, to modify the
CC composition of the groups, achieving, for example, enhanced, to modify the
CC immunogenicity. Accordingly, the immune response can be modulated, as
CC appropriate, for the target disease. Similar engineering of the response
CC is not possible with traditional approaches. ABP11501 to ABP25412
CC represent peptide sequences used in the exemplification of the present
CC invention. (Updated on 11-SEP-2003 to standardise OS field)
XX
SQ Sequence 15 AA;

Query Match 100.0%; Score 46; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.016; Mismatches 0; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Ov 1 KPVVSTQLL 10
Db 5 KPVVSTQLL 14

RESULT 12
ID AAM4947

ID AAM4947 standard; protein; 229 AA.
XX
AC AAM4947;

DT 29-AUG-2003 (revised)
DT 19-APR-2002 (first entry)

DB HIV-1 subtype C env protein fragment consensus sequence.
XX HIV-1 subtype C; vaccine; HIV infection; AIDS; env; antiviral.
XX OS Human immunodeficiency virus; type I.

XX WO200204494-A2.
XX PD 17-JAN-2002.

XX PR 09-JUL-2001; 2001WO-1B001208.
XX PR 07-JUL-2000; 2000US-021695P.
XX PR 10-JUL-2000; 2000ZA-0003437.
XX PR 15-SEP-2000; 2000ZA-0004924.

XX PA (MEDI-) MEDICAL RES COUNCIL.
PA (UNCA-) UNIV CAPE TOWN.
PA (UYNC-) UNIV NORTH CAROLINA.

XX PI Williamson C, Swanson RI, Morris L, Karim SA, Johnston RE;

XX DR WPI; 2002-171700/22.

FT Misc-difference 147
FT /note= "Encoded by TTT"
FT Misc-difference 163
FT /note= "Encoded by CCA"
FT Misc-difference 223
FT /note= "Encoded by AAA"
XX PN WO200176643-A1.
XX PR 07-APR-2000; 2000US-0195680P.
XX PA (BAYU) BAYLOR COLLEGE MEDICINE.
PI Orson FM, Kinsey BM, Bhogal BS;

Query Match	Score	DB	Length
Best Local Similarity	100.0%	Score 46;	DB 5;
Matches 10;	100.0%;	Pred. No. 0.29;	Length 229;
Conservative 0;	Mismatches 0;	Indices 0;	Gaps 0.
Qy 1 KPVVSTQULL 10			
Db 36 KPVVSTQULL 45			

RESULT 13
 AAE15742
 ID AAE15742 standard; protein: 236 AA.
 XX
 AC AAE15742;
 XX
 DT 29-AUG-2003 (revised)
 26-MAR-2002 (first entry)
 XX
 DE Plasmid CMV-HIV UB-#23 DNA encoded protein.
 XX
 KW HIV; human immunodeficiency virus; CMV; cytomegalovirus; cytostatic; immunosuppressive; virucide; antibacterial; fungicidal; protozoacide; antirheumatic; antiinflammatory; antiarthritic; neuroprotective; rheumatoid arthritis; cancer; multiple sclerosis; immune response; vasotropic; vaccine; gene therapy; autoimmune disease; vasculitis; ubiquitin.
 XX
 OS Human immunodeficiency virus.
 OS Cytomegalovirus.
 OS Chimeric.

XX
 CC The invention relates to a composition comprising an expression vector bound to an aggregated protein-polycationic polymer conjugate or suspension. The expression vector contains a promoter polynucleotide sequence operatively linked to a polynucleotide sequence encoding an antigen which is a fragment of a gene or genome associated with an infectious disease, cancer and autoimmune disease such as rheumatoid arthritis, vasculitis, and multiple sclerosis, pathogenic bacteria, consisting of bacterium, fungi, protists and virus such as human immunodeficiency virus (HIV), herpes simplex virus (HSV), hepatitis C virus (HCV), influenza and respiratory syncytial virus (RSV), and HIV; human immunodeficiency virus; CMV; cytomegalovirus; cytostatic; immunosuppressive; virucide; antibacterial; fungicidal; protozoacide; antirheumatic; antiinflammatory; antiarthritic; neuroprotective; rheumatoid arthritis; cancer; multiple sclerosis; immune response; vasotropic; vaccine; gene therapy; autoimmune disease; vasculitis; ubiquitin. The antigen and the cytokine are under transcriptional control of same or different promoter polynucleotide sequences. The expression vector, as a DNA vaccine is useful for treating a condition in an organism. The present sequence is protein encoded by plasmid CMV-HIV UB-#23 DNA. The protein contains ubiquitin fused to a protein fragment containing the immunodominant epitope for gp120, related to the invention. (Updated on 29-AUG-2003 to standardise OS field)

FT	Key	Location/Qualifiers
FT	Misc-difference	46 /note= "Encoded by AGG"
FT	Misc-difference	69 /note= "Encoded by GTC"
FT	Misc-difference	71 /note= "Encoded by TTC"
FT	Misc-difference	72 /note= "Encoded by ATG"
FT	Misc-difference	75 /note= "Encoded by GCT"
FT	Misc-difference	84 /note= "Encoded by ACA"
FT	Misc-difference	94 /note= "Encoded by AGC"
FT	Misc-difference	98 /note= "Encoded by ATA"
FT	Misc-difference	110 /note= "Encoded by GCA"
FT	Misc-difference	114 /note= "Encoded by ATG"
FT	Misc-difference	119 /note= "Encoded by GAT"

XX	Sequence	236 AA;
SQ	Query	Match
	Best Local	Similarity
	Matches	100.0%; Pred. No. 0;
	10;	Mismatches 0;
Qy	1 KPVNSVQLL	Score 46; DB 5; Length 236;
Db	46 KPVNSVQLL	Indels 0; Gaps 55

XX	RESULT	14
ID	AAW43071	AAW43071 standard; peptide; 417 AA.
XX		
AC	AAW43071;	
XX		
DT	17-OCT-2003	(revised)
DT	11-SEP-1998	(first entry)
XX		
DE	HIV-1 gp120 protein fragment	from isolate NYS.
XX		

KW gp120 protein; purification; fractionation; ion exchange; chromatography; XX binding affinity; CD4; hydrophobic interaction; size exclusion; vaccine.
 OS Human immunodeficiency virus 1.
 PN US566238A.
 XX PD 09-DEC-1997.
 XX PF 11-MAY-1995; 95US-00439286.
 XX PR 20-AUG-1991; 91US-00684963.
 XX PR 16-AUG-1993; 93US-0010002.
 XX PR 09-MAY-1994; 94US-00240073.
 PA (CHIR) CHIRON CORP.
 XX PI Scandella, C., Hailwood NL;
 XX DR WPI; 1998-041353/04.
 XX PT Purification of HIV gp120 - using chromatographic methods.
 XX PS Disclosure; FIG 2A-W; 53pp; English.
 AAW3066-W43080 are fragments of the gp120 protein from different human immunodeficiency virus type I (HIV-1) isolate. These proteins are used in a novel method for purifying HIV gp120 so as to provide a purified gp120 glycopptide having protein/protein binding properties substantially identical to natural viral HIV gp120. The method involves fractionating a crude gp120 preparation containing full-length, glycosylated gp120 using ion exchange chromatography so as to provide a first collection of fractions. A fraction from the first collection is selected that exhibits specific binding affinity for CD4 peptide, thereby producing a first fractionated material. The first fractionated material is fractionated by hydrophobic interaction chromatography so as to provide a second collection of fractions from which a second collection is selected that exhibits specific binding affinity for CD4 peptide. This second fraction is fractionated by size exclusion chromatography so as to provide a third collection of fractions exhibiting specific binding affinity for CD4 peptide, thereby providing the purified gp120. The purified gp120 can be used for antibody production and in vaccines.
 CC (Updated on 17-OCT-2003 to standardise OS field)
 XX SQ Sequence 417 AA;
 Query Match 100.0%; Score 46; DB 2; Length 417;
 Best Local Similarity 100.0%; Pred. No. 0.56; Mismatches 0; Indels 0; Gaps 0;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 KPVSTQULL 10
 Db 246 KPVVSTQULL 255

RESULT 15
 AAW37057
 ID AAW37067 Standard; protein; 474 AA.
 XX AC AAW37057;
 XX DT 17-OCT-2003 (revised)
 DT 20-JUL-1998 (first entry)
 DE HIV-1 breakthrough isolate clone CL7.3 gp120 polypeptide.
 KW HIV-1; envelope protein; gp120; MN-rgp120; vaccine; AIDS.
 OS Human immunodeficiency virus 1.
 XX PN WO9801564-A1.
 XX PD 15-JAN-1998.

Query Match 100.0%; Score 46; DB 2; Length 474;
 Best Local Similarity 100.0%; Pred. No. 0.65; Mismatches 0; Indels 0; Gaps 0;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 KPVSTQULL 10
 Db 207 KPVVSTQULL 216

Search completed: March 12, 2004, 14:23:56
 Job time : 57 secs

RESULT 3
 US-09-419-362-36
 ; Sequence 36, Application US/09419362
 ; Patent No. 6,859,737
 ; GENERAL INFORMATION:
 ; APPLICANT: Berman, Phillip W.
 ; TITLE OF INVENTION: HIV ENVELOPE POLYPEPTIDES AND VACCINE
 ; FILE REFERENCE: 14918-703D1V1
 ; CURRENT APPLICATION NUMBER: US/09/19,362
 ; CURRENT FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: US 60/676,737
 ; PRIOR FILING DATE: 1996-07-08
 ; NUMBER OF SEQ ID NOS: 57
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 36
 ; LENGTH: 474
 ; TYPE: PRT
 ; ORGANISM: HTV
 ; US-09-419-362-36

Query Match 100.0%; Score 46; DB 4; Length 474;
 Best Local Similarity 100.0%; Pred. No. 0.13; 0; Mismatches 0; Indels 0; Gaps 0;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Pw 1 KPVVSTQLL 10
 Db 207 KPVVSTQLL 216

RESULT 4
 S-09-419-362-39
 Sequence 39, Application US/09419362
 ; Patent No. 6,859,737
 ; GENERAL INFORMATION:
 ; APPLICANT: Berman, Phillip W.
 ; TITLE OF INVENTION: HIV ENVELOPE POLYPEPTIDES AND VACCINE
 ; FILE REFERENCE: 14918-703D1V1
 ; CURRENT APPLICATION NUMBER: US/09/419,362
 ; CURRENT FILING DATE: 1999-01-15
 ; PRIOR APPLICATION NUMBER: US 08/889,841
 ; PRIOR FILING DATE: 1997-07-08
 ; NUMBER OF SEQ ID NOS: 57
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 39
 ; LENGTH: 474
 ; TYPE: PRT
 ; ORGANISM: HTV
 ; US-09-419-362-39

Query Match 100.0%; Score 46; DB 3; Length 498;
 Best Local Similarity 100.0%; Pred. No. 0.14; 0; Mismatches 0; Indels 0; Gaps 0;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Pw 1 KPVVSTQLL 10
 Db 232 KPVVSTQLL 241

RESULT 5
 US-08-889-841B-5
 Sequence 5, Application US/08889841B
 ; GENERAL INFORMATION:
 ; APPLICANT: Berman, Phillip W.
 ; TITLE OF INVENTION: HIV ENVELOPE POLYPEPTIDES AND VACCINE
 ; FILE REFERENCE: 14918-703C1P
 ; CURRENT APPLICATION NUMBER: US/08/889,841B
 ; CURRENT FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: US 60/676,737
 ; PRIOR FILING DATE: 1996-07-08
 ; NUMBER OF SEQ ID NOS: 57
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 5
 ; LENGTH: 498
 ; TYPE: PRT
 ; ORGANISM: HIV
 ; FEATURE:
 ; NAME/KEY: VARIANT
 ; LOCATION: (1)..(498)
 ; OTHER INFORMATION: Xaa = Any Amino Acid
 ; US-08-889-841B-5

Query Match 100.0%; Score 46; DB 3; Length 498;
 Best Local Similarity 100.0%; Pred. No. 0.14; 0; Mismatches 0; Indels 0; Gaps 0;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Pw 1 KPVVSTQLL 10
 Db 232 KPVVSTQLL 241

RESULT 6
 US-08-889-841B-5
 Sequence 5, Application US/08889841B
 ; GENERAL INFORMATION:
 ; APPLICANT: Berman, Phillip W.
 ; TITLE OF INVENTION: HIV ENVELOPE POLYPEPTIDES AND VACCINE
 ; FILE REFERENCE: 14918-703C1P
 ; CURRENT APPLICATION NUMBER: US/08/889,841B
 ; CURRENT FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: US 60/676,737
 ; PRIOR FILING DATE: 1996-07-08
 ; NUMBER OF SEQ ID NOS: 57
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 5
 ; LENGTH: 498
 ; TYPE: PRT
 ; ORGANISM: HIV
 ; FEATURE:
 ; NAME/KEY: VARIANT
 ; LOCATION: (1)..(498)
 ; OTHER INFORMATION: Xaa = Any Amino Acid
 ; US-08-889-841B-5

Query Match 100.0%; Score 46; DB 3; Length 498;
 Best Local Similarity 100.0%; Pred. No. 0.14; 0; Mismatches 0; Indels 0; Gaps 0;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Pw 1 KPVVSTQLL 10
 Db 232 KPVVSTQLL 241

RESULT 7
 US-09-419-362-2
 ; Sequence 2, Application US/09419362
 ; Patent No. 6,859,737
 ; GENERAL INFORMATION:
 ; APPLICANT: Berman, Phillip W.
 ; TITLE OF INVENTION: HIV ENVELOPE POLYPEPTIDES AND VACCINE
 ; FILE REFERENCE: 14918-703D1V1
 ; CURRENT APPLICATION NUMBER: US/09/419,362
 ; CURRENT FILING DATE: 1999-01-15
 ; PRIOR APPLICATION NUMBER: US 08/889,841
 ; PRIOR FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: US 60/676,737
 ; PRIOR FILING DATE: 1996-07-08
 ; NUMBER OF SEQ ID NOS: 57
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 2
 ; LENGTH: 498

```

; TYPE: PRT
; ORGANISM: HIV
; US-09-419-362-2

Query Match 100.0%; Score 46; DB 4; Length 498;
Best Local Similarity 100.0%; Pred. No. 0.14; Mismatches 0; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 .KPVVSTQLL 10
Db 232 KPVVSTQLL 241

RESULT 8
US-09-419-362-5
; Sequence 5, Application US/09419362
; Patent No. 6585979
; GENERAL INFORMATION:
; APPLICANT: Berman, Phillip W.
; TITLE OF INVENTION: HIV ENVELOPE POLYPEPTIDES AND VACCINE
; FILE REFERENCE: 14918-703D1V1
; CURRENT APPLICATION NUMBER: US/09/419,362
; CURRENT FILING DATE: 1999-10-15
; PRIOR APPLICATION NUMBER: US 08/889,841
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: US 60/676,737
; PRIOR FILING DATE: 1996-07-08
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 498
; TYPE: PRT
; ORGANISM: HIV
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)..(498)
; OTHER INFORMATION: xaa = Any Amino Acid
; US-09-419-362-5

Query Match 100.0%; Score 46; DB 4; Length 498;
Best Local Similarity 100.0%; Pred. No. 0.14; Mismatches 0; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQLL 10
Db 232 KPVVSTQLL 241

RESULT 9
US-09-646-028-56
; Sequence 56, Application US/09646028
; Patent No. 6562347
; GENERAL INFORMATION:
; APPLICANT: Kwak, Larry
; TITLE OF INVENTION: METHODS AND COMPOSITIONS OF
; FILE REFERENCE: 14014.0316/P
; CURRENT APPLICATION NUMBER: US/09/646,028
; CURRENT FILING DATE: 2000-09-12
; PRIOR APPLICATION NUMBER: 60/077,745
; PRIOR FILING DATE: 1998-03-12
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 56
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of artificial sequence:/note=synthetic construct
; US-09-646-028-56

Query Match 100.0%; Score 46; DB 4; Length 595;
Best Local Similarity 100.0%; Pred. No. 0.17; Mismatches 0; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQLL 10
Db 336 KPVVSTQLL 345

RESULT 11
US-09-392-806A-2
; Sequence 2, Application US/08392806A
; Patent No. 5965135
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New HIV-1 virus isolates of a
; TITLE OF INVENTION: subtype vaccine against HIV-1 virus infections of this subtype
; TITLE OF INVENTION: and method of producing same, use of the HIV-1 virus isolates
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jacobson, Price Holman and Stern, PLLC
; STREET: 400 Seventh street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/392,806A
; FILING DATE: 20-APR-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP93/02275
; FILING DATE: 25-AUG-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DE P 4228787.1
; FILING DATE: 29-AUG-1992

Query Match 100.0%; Score 46; DB 4; Length 587;
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of artificial sequence:/note=synthetic construct
; US-09-646-028-50

Query Match 100.0%; Score 46; DB 4; Length 587;

```

```

; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 596 amino acids
; TYPE: amino acid
; TOPOLogy: linear
; MOLECULE TYPE: protein
US-08-392-806A-2

Query Match 100.0%; Score 46; DB 2; Length 596;
Best Local Similarity 100.0%; Pred. No. 0.17; Mismatches 0; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KPVSTQLL 10
DB 137 KPVSTQLL 146

RESULT 12
US-08-257-490-2

Sequence 2, Application US/09257490A
Patent No. 6248328
GENERAL INFORMATION:
APPLICANT: Dietrich, Ursula
APPLICANT: Von Briesen, Hagen
APPLICANT: Grez, Manuel
APPLICANT: Rubsamen-Waigmann, Helga
TITLE OF INVENTION: HIV-1 virus isolates of a subtype and its differential
TITLE OF INVENTION: diagnostics, a vaccine against HIV-1 virus infections
TITLE OF INVENTION: of this subtype and method of producing same, use of
FILE REFERENCE: 10496/PS8512051
CURRENT APPLICATION NUMBER: US/09/257,490A
CURRENT FILING DATE: 1999-02-25
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 2
LENGTH: 596
TYPE: PRT
ORGANISM: Human immunodeficiency virus
FEATURE: OTHER INFORMATION: HIV-1(D757)

Query Match 100.0%; Score 46; DB 3; Length 596;
Best Local Similarity 100.0%; Pred. No. 0.17; Mismatches 0; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KPVSTQLL 10
DB 137 KPVSTQLL 146

RESULT 13
US-08-392-806A-4

Sequence 4, Application US/08392806A
Patent No. 5965135
GENERAL INFORMATION:
APPLICANT: Dietrich, Ursula
APPLICANT: Von Briesen, Hagen
APPLICANT: Grez, Manuel
APPLICANT: Rubsamen-Waigmann, Helga
TITLE OF INVENTION: HIV-1 virus isolates of a subtype and its differential
TITLE OF INVENTION: diagnostics, a vaccine against HIV-1 virus infections
TITLE OF INVENTION: of this subtype and method of producing same, use of
FILE REFERENCE: 10496/PS8512051
CURRENT APPLICATION NUMBER: US/09/257,490A
CURRENT FILING DATE: 1999-02-25
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 4
LENGTH: 600
TYPE: PRT
ORGANISM: Human immunodeficiency virus
FEATURE: OTHER INFORMATION: HIV-1(D747)

Query Match 100.0%; Score 46; DB 3; Length 600;
Best Local Similarity 100.0%; Pred. No. 0.17; Mismatches 0; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KPVSTQLL 10
DB 139 KPVSTQLL 148

RESULT 14
US-09-257-490-4

Sequence 4, Application US/09257490A
Patent No. 6248328
GENERAL INFORMATION:
APPLICANT: Dietrich, Ursula
APPLICANT: Von Briesen, Hagen
APPLICANT: Grez, Manuel
APPLICANT: Rubsamen-Waigmann, Helga
TITLE OF INVENTION: HIV-1 virus isolates of a subtype and its differential
TITLE OF INVENTION: diagnostics, a vaccine against HIV-1 virus infections
TITLE OF INVENTION: of this subtype and method of producing same, use of
FILE REFERENCE: 10496/PS8512051
CURRENT APPLICATION NUMBER: US/09/257,490A
CURRENT FILING DATE: 1999-02-25
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 4
LENGTH: 600
TYPE: PRT
ORGANISM: Human immunodeficiency virus
FEATURE: OTHER INFORMATION: HIV-1(D747)

Query Match 100.0%; Score 46; DB 3; Length 600;
Best Local Similarity 100.0%; Pred. No. 0.17; Mismatches 0; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KPVSTQLL 10
DB 139 KPVSTQLL 148

RESULT 15
US-09-646-028-52

Sequence 52, Application US/09646028
Patent No. 6362347
GENERAL INFORMATION:
APPLICANT: Kwak, Larry
APPLICANT: Biragyn, Arya
TITLE OF INVENTION: METHODS AND COMPOSITIONS OF
TITLE OF INVENTION: CHEMOKINE-TUMOR ANTIGEN FUSION PROTEINS AS CANCER VACCINES
FILE REFERENCE: 14014.016/P

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

```

CURRENT APPLICATION NUMBER: US/09/646,028
CURRENT FILING DATE: 2000-09-12
PRIOR APPLICATION NUMBER: 60/077,745
PRIOR FILING DATE: 1998-03-12
NUMBER OF SEQ ID NOS: 57
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 52
LENGTH: 601
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Description of artificial sequence:/note=synthetic construct
US-09-646-028-52

Query Match 100.0%; Score 46; DB 4; Length 601;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 KPVVSTOLL 10
||| ||||| |||||
Db 342 KPVVSTOLL 351

Search completed: March 12, 2004, 14:26:19
Job time : 23 secs

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PRIOR APPLICATION NUMBER: US/09/646,028
 PRIOR FILING DATE: 2000-09-12
 PRIOR APPLICATION NUMBER: 60/077,745
 PRIOR FILING DATE: 1998-03-12
 NUMBER OF SEQ ID NOS: 57
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO 56
 LENGTH: 595
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE: OTHER INFORMATION: Description of artificial sequence:/note=synthetic construct
 US-10-335-394-56
 Query Match 100.0%; Score 46; DB 14; Length 595;
 Best Local Similarity 100.0%; Pred. No. 0.85; Mismatches 0; Indels 0; Gaps 0;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 KPVVSTQLL 10
 Db 336 KPVVSTQLL 345

RESULT 7
 US-10-335-394-52
 Sequence 52, Application US/10335394
 Publication No. US20030138452A1
 GENERAL INFORMATION:
 APPLICANT: KWAK, Barry
 APPLICANT: Biragyn, Larry
 TITLE OF INVENTION: METHODS AND COMPOSITIONS OF
 TITLE OF INVENTION: CHEMOKINE-TUMOR ANTIGEN FUSION PROTEINS AS CANCER VACCINES
 FILE REFERENCE: 14014_0316/P
 CURRENT APPLICATION NUMBER: US/10/335,394
 CURRENT FILING DATE: 2002-12-31
 CURRENT FILING DATE: 2002-12-31
 PRIOR APPLICATION NUMBER: US/09/646,028
 PRIOR FILING DATE: 2000-09-12
 PRIOR FILING DATE: 60/077,745
 NUMBER OF SEQ ID NOS: 57
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO 52
 LENGTH: 601
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE: OTHER INFORMATION: Description of artificial sequence:/note=synthetic construct
 US-10-335-394-52
 Query Match 100.0%; Score 46; DB 14; Length 601;
 Best Local Similarity 100.0%; Pred. No. 0.86; Mismatches 0; Indels 0; Gaps 0;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 KPVVSTQLL 10
 Db 342 KPVVSTQLL 351

RESULT 8
 US-10-190-435-134
 Sequence 134, Application US/10190435
 Publication No. US20030143248A1
 GENERAL INFORMATION:
 APPLICANT: ZUR MEGEDE, Jan
 APPLICANT: BARNETT, Susan W.
 APPLICANT: LIAN, Ying
 APPLICANT: ENGELBRECHT, Susan
 APPLICANT: VAN RENSBURG, Estrelita J.
 TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING ANTIGENIC HIV TYPE C
 TITLE OF INVENTION: POLYPEPTIDES, POLYPEPTIDES AND USES THEREOF
 FILE REFERENCE: PPI8133.003 / 2302-18133
 CURRENT APPLICATION NUMBER: US/10/190,435
 CURRENT FILING DATE: 2002-12-30
 NUMBER OF SEQ ID NOS: 319
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 129
 LENGTH: 845
 TYPE: PRT

RESULT 9
 US-10-190-435-135
 Sequence 135, Application US/10190435
 Publication No. US20030143248A1
 GENERAL INFORMATION:
 APPLICANT: ZUR MEGEDE, Jan
 APPLICANT: BARNETT, Susan W.
 APPLICANT: LIAN, Ying
 APPLICANT: ENGELBRECHT, Susan
 APPLICANT: VAN RENSBURG, Estrelita J.
 TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING ANTIGENIC HIV TYPE C
 TITLE OF INVENTION: POLYPEPTIDES, POLYPEPTIDES AND USES THEREOF
 FILE REFERENCE: PPI8133.003 / 2302-18133
 CURRENT APPLICATION NUMBER: US/10/190,435
 CURRENT FILING DATE: 2002-12-30
 NUMBER OF SEQ ID NOS: 319
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 135
 LENGTH: 803
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE: OTHER INFORMATION: Description of Artificial Sequence: TV007cB104
 US-10-190-435-135
 Query Match 100.0%; Score 46; DB 14; Length 803;
 Best Local Similarity 100.0%; Pred. No. 1.2; Mismatches 0; Indels 0; Gaps 0;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 KPVVSTQLL 10
 Db 252 KPVVSTQLL 261

RESULT 10
 US-10-190-435-129
 Sequence 129, Application US/10190435
 Publication No. US20030143248A1
 GENERAL INFORMATION:
 APPLICANT: ZUR MEGEDE, Jan
 APPLICANT: BARNETT, Susan W.
 APPLICANT: LIAN, Ying
 APPLICANT: ENGELBRECHT, Susan
 APPLICANT: VAN RENSBURG, Estrelita J.
 TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING ANTIGENIC HIV TYPE C
 TITLE OF INVENTION: POLYPEPTIDES, POLYPEPTIDES AND USES THEREOF
 FILE REFERENCE: PPI8133.003 / 2302-18133
 CURRENT APPLICATION NUMBER: US/10/190,435
 CURRENT FILING DATE: 2002-12-30
 NUMBER OF SEQ ID NOS: 319
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 129
 LENGTH: 845
 TYPE: PRT

;

;

ORGANISM: Artificial Sequence

FEATURE: OTHER INFORMATION: Description of Artificial Sequence: TV012c2.1

US-10-190-435-129

Query Match Best Local Similarity 100.0%; Score 46; DB 14; Length 845; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVSTQLL 10

Db 242 KPVSTQLL 251

RESULT 11

US-10-190-435-130

;

Sequence 130, Application US/10190435

Publication No. US20030143248A1

GENERAL INFORMATION:

;

APPLICANT: ZUR MEGDE, Jan

APPLICANT: BARNETT, Susan W.

APPLICANT: LIAN, Ying

APPLICANT: ENGELRECHT, Susan

;

TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING ANTIGENIC HIV TYPE C

FILE REFERENCE: PPI8133.003 / 2302-18133

CURRENT APPLICATION NUMBER: US/10/190,435

CURRENT FILING DATE: 2002-12-30

NUMBER OF SEQ ID NOS: 319

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO: 130

LENGTH: 845

TYPE: PRT

;

ORGANISM: Artificial Sequence

FEATURE:

;

OTHER INFORMATION: Description of Artificial Sequence: TV012c2.2

Query Match Best Local Similarity 100.0%; Score 46; DB 14; Length 845; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVSTQLL 10

Db 242 KPVSTQLL 251

RESULT 12

US-10-190-435-143

;

Sequence 143, Application US/10190435

Publication No. US20030143248A1

GENERAL INFORMATION:

;

APPLICANT: ZUR MEGDE, Jan

APPLICANT: BARNETT, Susan W.

APPLICANT: LIAN, Ying

APPLICANT: ENGELRECHT, Susan

APPLICANT: VAN RENSBURG, Estrelita J.

;

TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING ANTIGENIC HIV TYPE C

FILE REFERENCE: PPI8133.003 / 2302-18133

CURRENT APPLICATION NUMBER: US/10/190,435

CURRENT FILING DATE: 2002-12-30

NUMBER OF SEQ ID NOS: 319

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO: 131

LENGTH: 851

TYPE: PRT

;

ORGANISM: Artificial Sequence

FEATURE:

;

OTHER INFORMATION: Description of Artificial Sequence: TV006c9.1

US-10-190-435-131

;

Query Match Best Local Similarity 100.0%; Score 46; DB 14; Length 851; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVSTQLL 10

Db ||||||| KPVNSIQLL 256
RESULT 15
US-0-190-435-149
; Sequence 149, Application US/10190435
; Publication No. US20030143248A1
; GENERAL INFORMATION:
; APPLICANT: ZUR MEGEDE, Jan
; APPLICANT: BARNETT, Susan W.
; APPLICANT: LIAN, Ying
; APPLICANT: ENGELBRECHT, Susan
; APPLICANT: VAN RENSBURG, Estrelita J.
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING ANTIGENIC HIV TYPE C
; TITLE OF INVENTION: POLYPEPTIDES, POLYPEPTIDES AND USES THEREOF
; FILE REFERENCE: PPI8133.003 / 2302-18133
; CURRENT APPLICATION NUMBER: US/10/190,435
; CURRENT FILING DATE: 2002-12-30
; NUMBER OF SEQ ID NOS: 319
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 149
; LENGTH: 851
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ETH2220
US-10-190-435-149

Query Match 100.0%; Score 46; DB 14; Length 851;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy ||||||| KPVNSIQLL 10
Db 249 KPVNSIQLL 258

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Job time : 34 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model
 Run on: March 12, 2004, 14:22:50 ; Search time 21 Seconds
 (without alignments)
 45.805 Million cell updates/sec

Title: PARKIN524.PEP
 Perfect score: 46
 Sequence: 1 kpvvstql11 10
 Scoring table: BLOSUM62
 Gapop 10.0 , Gapext 0.5

Searched: 283366 seqs, 9619126 residues
 Total number of hits satisfying chosen parameters: 283366

Minimum DB seq length: 0
 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : PIR 78.4
 1: pir1.*
 2: pir2.*
 3: pir3.*
 4: pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

ALIGNMENTS

Result No.	Score	Query Match	Length	DB ID	Description	Qy	1 kpvvstql11 10	Db	233 kpvvstql11 242
RESULT 1									
1	46	100.0	495	2	S31493	S31493			
2	46	100.0	859	2	T01672				
3	43	93.5	219	2	S25939				
4	43	93.5	729	1	VCLJJKX				
5	43	93.5	843	1	H44001				
6	43	93.5	846	1	VCLJND				
7	43	93.5	847	2	T01648				
8	43	93.5	847	2	S13289				
9	43	93.5	851	2	S31985				
10	43	93.5	852	1	VCLJBR				
11	43	93.5	852	2	T01216				
12	43	93.5	853	2	S55384				
13	43	93.5	854	2	S13288				
14	43	93.5	855	1	VCLJZR				
15	43	93.5	856	1	VCLJH3				
16	43	93.5	856	1	VCLJVL				
17	43	93.5	856	1	VCLJ3W				
18	43	93.5	856	1	A41963				
19	43	93.5	859	1	VCLJMN				
20	43	93.5	861	1	VCLJLV				
21	43	93.5	861	1	VCLJKB				
22	43	93.5	861	1	VCLJH4				
23	42	91.3	856	2	A42218				
24	42	91.3	856	1	VCLJAZ				
25	41	89.1	854	1	VCLJSI				
26	40	87.0	877	2	S41917				
27	38	82.6	861	1	VCLJSC				
28	38	863	2	A55034					
29	34	73.9	224	2	S71749				

env protein - human immunodeficiency virus type 1 (fragment)
 C;Species: human immunodeficiency virus type 1, HIV-1
 C;Date: 25-feb-1994 #sequence_revision 30-Jan-1998 #text_change 26-Aug-1999
 C;Accession: S25939
 R;Guo, H.G.; Chermann, J.C.; Waters, D.; Hall, L.; Louie, A.; Gallo, R.C.; Streicher, H.
 Nature 349, 745-746, 1991
 A;Title: Sequence analysis of original HIV-1.
 A;Reference number: S25937; MUID:91156044; PMID:2000145
 A;Status: nucleic acid sequence not shown; translation not shown
 A;Molecule type: DNA
 A;Residue: 1-219 <3'>
 A;Cross-references: EMBL:X57447; NID:960212; PIDN:CAA40693.1; PID:9388536
 A;Experimental source: strain JBB
 A;Note: the nucleotide sequence was submitted to the EMBL Data Library, March 1991
 C;Genetics:
 A;Gene: env
 C;Superfamily: type B retrovirus env polyprotein
 C;Keywords: coat protein
 C;Keywords: coat protein
 Query Match
 Best Local Similarity 93.5%; Score 43; DB 2; Length 219;
 Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 KPVVSTQQL 10
 Db 209 RPVVSTQQL 218
 RESULT 4
 env polyprotein precursor - human immunodeficiency virus type 1 (strain KB-1-gp32)
 VCVJTKX
 C;Accession: B42995
 A;Note: host Homo sapiens (man)
 A;Title: Analysis of a human immunodeficiency virus type 1, HIV-1
 A;Reference number: A42995; MUID:92351552; PMID:1322587
 A;Molecule type: mRNA
 A;Residue: 1-729 <SIG>
 A;Cross-references: GB:S41266; GB:D01205
 C;Genetics:
 A;Gene: env
 C;Superfamily: type B retrovirus env polyprotein
 C;Keywords: coat protein; glycoprotein; polyprotein; transmembrane protein
 C;Keywords: coat protein; glycoprotein; polyprotein; transmembrane protein
 F;1-29/Domain: signal sequence #status predicted <SIG>
 F;19-35/Region: hydrophobic
 F;30-489/Product: coat protein gp120 #status predicted <GP1>
 F;490-843/Product: coat protein gp41 #status predicted <GP2>
 F;499-515/Region: hydrophobic
 F;673-689/Region: hydrophobic
 F;731-755/Domain: transmembrane #status predicted <TMN>
 F;87,129,135,138,154,158,184,193,230,237,258,272,285,291,297,327,351,381,389,393,395,400,435
 Query Match
 Best Local Similarity 93.5%; Score 43; DB 1; Length 843;
 Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 KPVVSTQQL 10
 Db 248 RPVVSTQQL 257
 RESULT 6
 VCVJND
 env polyprotein precursor - human immunodeficiency virus type 1 (isolate NDK)
 N;Alternative name: coat polyprotein
 N;Accession: B42995
 C;Species: human immunodeficiency virus type 1, HIV-1
 A;Note: host Homo sapiens (man)
 C;Date: 30-Sep-1991 #sequence_revision 30-Sep-1991 #text_change 16-Jul-1999
 C;Accession: J00066
 R;Spire, B.; Sire, J.; Zachar, V.; Rey, F.; Barre-Sinoussi, F.; Galibert, F.; Hampe, A.;
 Gene 81, 275-284, 1989
 A;Title: Nucleotide sequence of HIV-1-NDK: a highly cytopathic strain of the human immunodeficiency virus type 1
 A;Reference number: J00065; MUID:9034200; PMID:22806917
 A;Accession: J00066
 A;Molecule type: DNA
 A;Residues: 1-846 <CP1>
 A;Cross-references: GB:M7323; NID:9328154; PIDN:AAA44873.1; PID:9328162
 A;Note: the authors translated the codon GCG for residue 523 as Arg
 A;Gene: env
 C;Genetics:
 C;Superfamily: type B retrovirus env polyprotein
 C;Keywords: AIDS; capsid protein; coat protein; glycoprotein; immunodeficiency; polyprotein
 C;Keywords: AIDS; capsid protein; coat protein; glycoprotein; immunodeficiency; polyprotein
 F;1-29/Domain: signal sequence #status predicted <SIG>
 F;30-51/Region: hydrophobic
 F;502-846/Product: coat protein gp120 #status predicted <CP1>
 F;502-520/Domain: transmembrane #status predicted <CP2>
 F;674-692/Domain: transmembrane #status predicted <TM1>
 F;87,129,151,179,182,229,235,257,271,284,290,331,382,388,392,395,401,413,451,452,601,606
 Query Match
 Best Local Similarity 93.5%; Score 43; DB 1; Length 846;
 Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 KPVVSTQQL 10
 Db 259 RPVVSTQQL 268
 RESULT 5

Query Match 93.5%; Score 43; DB 1; Length 855;
 Best Local Similarity 90.0%; Pred. No. 0.61; Mismatches 9;
 Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQLL 10
 Db 253 RPVVSTQLL 262

RESULT 13

S13288 env protein - human immunodeficiency virus type 1
 C;Species: human immunodeficiency virus type 1, HIV-1
 C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 31-Oct-1997
 C;Accession: S13288
 R;O'rien, W. A.; Koyanagi, Y.; Nanzie, A.; Zhao, J.Q.; Diagne, A.; Idler, K.; Zack, J.A.; Title: HIV-1 tropism for mononuclear phagocytes can be determined by regions of gp120
 A;Reference number: S13288; MUID:91043044; PMID:2172833
 A;Status: preliminary
 A;Molecule type: DNA
 A;Residues: 1-854 <OBR>
 C;Superfamily: type B retrovirus env polyprotein

Query Match 93.5%; Score 43; DB 2; Length 854;
 Best Local Similarity 90.0%; Pred. No. 0.61; Mismatches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQLL 10
 Db 250 RPVVSTQLL 259

RESULT 14

VCWJZR env polyprotein precursor - human immunodeficiency virus Zr-6
 N;Alternate names: coat polyprotein
 C;Species: human immunodeficiency virus Zr-6
 C;Date: 30-Sep-1987 #sequence_revision 30-Sep-1987 #text_change 16-Jul-1999
 C;Accession: D26192
 R;Srinivasan, A.; Anand, R.; York, D.; Ranganathan, P.; Feorino, P.; Schochetman, G.; Cu
 A;Title: Molecular characterization of human immunodeficiency virus from Zaire: nucleoti
 A;Reference number: A26192; MUID:87248097; PMID:3036660
 A;Accession: D26192
 A;Molecule type: DNA
 A;Residues: 1-855 <SR>
 A;Cross-references: GB:K03458; GB:M16322; NID:9329398; PIDN:AAA45380.1; PID:9329403
 A;Gene: env
 C;Genetics:
 C;Superfamily: type E retrovirus env polyprotein
 C;Keywords: AIDS; capsid protein; coat protein; glycoprotein; immunodeficiency; polyproto
 P;1-30/Domain: signal sequence #status predicted <SIG>
 P;512-856/Product: exterior membrane glycoprotein #status predicted <EXT>
 P;888-136,-41,156-160,186,197,230,234,211,262,276,289,295,301,312,339,356,386,392,397,406,
 P;611,616,625,637,674,750,816/Binding site: carbohydrate (Asn) (covalent); #status predict
 P;611,616,625,637,674,750,816/Binding site: carbohydrate (Asn) (covalent); #status predict
 Query Match 93.5%; Score 43; DB 1; Length 856;
 Best Local Similarity 90.0%; Pred. No. 0.61; Mismatches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQLL 10
 Db 252 RPVVSTQLL 261

Search completed: March 12, 2004, 14:25:44
 Job Time : 22 secs

FT CARBOHYD 236 236
 FT CARBOHYD 257 257
 FT CARBOHYD 271 271
 FT CARBOHYD 284 284
 FT CARBOHYD 290 290
 FT CARBOHYD 296 296
 FT CARBOHYD 326 326
 FT CARBOHYD 333 333
 FT CARBOHYD 349 349
 FT CARBOHYD 355 355
 FT CARBOHYD 385 385
 FT CARBOHYD 391 391
 FT CARBOHYD 395 395
 FT CARBOHYD 403 403
 FT SEQUENCE 421 AA; 47493 MW; 25A575719C22967B CRC64;

Query Match Best Local Similarity 100.0%; Score 46; DB 1; Length 421; Matches 10; Conservative 0; Pred. No. 0.052; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQLL 10
 Db 247 KPVVSTQLL 256

RESULT 2
 ENV_HV1S3 ID ENV_HV1S3 STANDARD; PRT; 852 AA.
 AC P19549; 01-FEB-1991 (Rel. 17, Created)
 DT 01-FEB-1991 (Rel. 17, Last sequence update)
 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Envelope polyprotein GP160 precursor [Contains: Exterior membrane glycoprotein (GP120); Transmembrane glycoprotein (Gp41)].
 GN Human immunodeficiency virus type 1 (SF33 isolate) (HIV-1).
 OS Viruses; Retroviruses; Retroviridae; Lentivirus.
 OC NCBI_TAXID:11690;
 RN [1] FROM N.A.
 RP SEQUENCE FROM N.A.
 RA MEDLINE:90317906; PubMed=2370688;
 RT York-Higgins D., Cheng-Mayer C., Bauer D., Levy J.A., Dina D.;
 RT replication, and cytopathicity are linked to the envelope region of
 RT the viral genome." J. Virol. 64:4016-4020 (1990).
 RL
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 EMBL: AY552275; AA017031; 1; -
 DR PDB; 1MEQ; 11-DEC-02.
 DR HIV; M38427; ENVSSP3.
 DR InterPro; IPR00328; Env_GP41.
 DR InterPro; IPR00777; GP120.
 DR Pfam; PF00516; GP120; 1.
 DR Pfam; PF00517; GP41; 1.
 DR AIDS; Cathepsin; Polyprotein; Transmembrane; Signal; 3D-structure.
 FT SIGNAL 1 31 BY SIMILARITY.
 FT CHAIN 32 506 EXTERIOR MEMBRANE GLYCOPROTEIN.
 FT DISULFID 507 852 TRANSMEMBRANE GLYCOPROTEIN.
 FT DISULFID 53 73 BY SIMILARITY.

FT DISULFID 118 206 BY SIMILARITY.
 FT DISULFID 125 197 BY SIMILARITY.
 FT DISULFID 130 156 BY SIMILARITY.
 FT DISULFID 219 248 BY SIMILARITY.
 FT DISULFID 229 240 BY SIMILARITY.

FT DISULFID 297 331 BY SIMILARITY.
 FT DISULFID 377 439 BY SIMILARITY.
 FT DISULFID 384 412 BY SIMILARITY.
 FT CARBOHYD 87 87 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 129 129 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 136 136 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 141 141 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 142 142 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 155 155 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 159 159 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 189 189 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 198 198 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 242 242 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 263 263 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 277 277 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 290 290 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 296 296 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 332 332 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 339 339 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 355 355 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 385 385 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 391 391 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 397 397 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 401 401 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 405 405 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 442 442 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 457 457 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 607 607 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 612 612 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 621 621 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 633 633 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 812 812 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT SEQUENCE 852 AA; 96663 MW; E87BBF8D23C9910D CRC64;

Query Match Best Local Similarity 100.0%; Score 46; DB 1; Length 852; Matches 10; Conservative 0; Pred. No. 0.1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQLL 10
 Db 253 KPVVSTQLL 262

RESULT 3
 ENV_HV1OY ID ENV_HV1OY STANDARD; PRT; 855 AA.
 AC P2088; 01-FEB-1991 (Rel. 17, Created)
 DT 01-FEB-1991 (Rel. 17, Last sequence update)
 DE Envelope polyprotein GP160 precursor [Contains: Exterior membrane glycoprotein (GP120); Transmembrane glycoprotein (Gp41)].
 GN ENV.
 OS Human immunodeficiency virus type 1 (OVI isolate) (HIV-1).
 OC Viruses; Retroviruses; Retroviridae; Lentivirus.
 RN NCBI_TAXID:11699;
 RN [1] FROM N.A.
 RP SEQUENCE FROM N.A.
 RA MEDLINE:9014854; PubMed=2559749;
 RT Huot T., Dazza M.C., Brun-Vezinet F., Roelants G.E., Wain-Hobson S.;
 RT individual presenting an atypical western blot.; AIDS 3:707-715(1983);
 CC 1- MISCELLANOUS: THE OVI ISOLATE WAS TAKEN FROM THE BLOOD OF A
 CC HEALTHY GABONIAN INDIVIDUAL.
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CC	-----									
DR	EMBL; M26727; AAA83397.1; -.									
DR	HIV; M26727; ENVSOY1. Env GP41.									
DR	InterPro; IPR000328; Env GP41.									
DR	InterPro; IPR000777; GP120.									
DR	Pfam; PF00516; GP120; 1.									
DR	AIDS; Coat protein; Polyprotein; Glycoprotein; Transmembrane; Signal.									
FT	SIGNAL 1 29									
FT	CHAIN 30 509									
FT	DISULFID 53 73									
FT	DISULFID 118 210									
FT	DISULFID 125 201									
FT	DISULFID 130 162									
FT	DISULFID 223 252									
FT	DISULFID 233 244									
FT	DISULFID 301 335									
FT	DISULFID 381 415									
FT	CARBOHYD 87 87									
FT	CARBOHYD 134 142									
FT	CARBOHYD 142 145									
FT	CARBOHYD 161 161									
FT	CARBOHYD 165 165									
FT	CARBOHYD 192 192									
FT	CARBOHYD 202 202									
FT	CARBOHYD 239 239									
FT	CARBOHYD 246 246									
FT	CARBOHYD 267 267									
FT	CARBOHYD 281 281									
FT	CARBOHYD 294 294									
FT	CARBOHYD 300 300									
FT	CARBOHYD 306 306									
FT	CARBOHYD 336 336									
FT	CARBOHYD 359 359									
FT	CARBOHYD 389 389									
FT	CARBOHYD 395 395									
FT	CARBOHYD 399 399									
FT	CARBOHYD 405 405									
FT	CARBOHYD 458 458									
FT	CARBOHYD 610 610									
FT	CARBOHYD 615 615									
FT	CARBOHYD 624 624									
FT	CARBOHYD 636 636									
FT	CARBOHYD 815 815									
SQ	SEQUENCE 855 AA; 97476 MW; 9C782A67ADD6DA CRC64;									
RESULT 4	-----									
ENV_HV1LW	STANDARD; PRT; 856 AA.									
ID	ENV_HV1LW									
AC	Q70656; 15-JUL-1998 (Rel. 35, Created)									
DT	15-JUL-1998 (Rel. 36, Last sequence update)									
DT	10-OCT-2003 (Rel. 42, Last annotation update)									
DE	Envelope polyprotein [Contains: Exterior membrane glycoprotein (GP160 precursor); Transmembrane glycoprotein (GP120); Human immunodeficiency virus type 1 (HIV-1); Viruses; Retroid viruses; Retroviridae; Lentivirus; AIDS; Coat protein; Polyprotein; Glycoprotein; Transmembrane; Signal.									
DB	NCBI_Taxonomy:82834; [1]									
RN	-----									
Query	Match 100.0%; Score 46; DB 1; Length 855; Best Local Similarity 100.0%; Pred. No. 0.1;保守性 0; Mismatches 0; Indels 0; Gaps 0;									
Matches	1 KPVVSTQLL 10 257 KPVVSTQLL 266									
RP	SEQUENCE FROM N.A. MEDLINE=512797; PubMed=7826699; REIDLINE=512797; Hall L., Robert-Guroff M., Lautenberger J., Hahn B.M., Reitz M.S. Jr., Weiss S.H., Waters D., Gallo R.C., Blattner W., Shaw G.M., Kong L.T., Weiss S.H., Waters D., Gallo R.C., Blattner W., "Viral variability and serum antibody response in a laboratory worker infected with HIV type I (HIV type IIB)."; AIDS Res. Hum. Retroviruses 10:1143-1155 (1994).									
RX	-----									
RA	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement. (See http://www.isb-sib.ch/announce/ or send an email to license@sb-sib.ch).									
CC	-----									
RA	AIDS Res. Hum. Retroviruses 10:1143-1155 (1994).									
CC	-----									
RA	DR EMBL; M26727; AAA83397.1; -.									
RA	DR HIV; M26727; ENVSOY1. Env GP41.									
RA	DR InterPro; IPR000328; Env GP41.									
RA	DR InterPro; IPR000777; GP120.									
RA	DR Pfam; PF00516; GP120; 1.									
RA	DR Pfam; PF00517; GP41; 1.									
RA	DR PDB; 1IF3; 02-MAY-01.									
RA	DR GlycoSuiteDB; Q70626; -.									
RA	DR InterPro; IPR000328; Env GP41.									
RA	DR Pfam; PF00516; GP120; 1.									
RA	DR AIDS Res. Hum. Retroviruses 10:1143-1155 (1994).									
RA	-----									
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FT CARBOHYD 87 87 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 135 135 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 140 140 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 143 143 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 159 159 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 163 163 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 188 188 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 189 189 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 199 199 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 209 209 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 246 246 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 253 253 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 274 274 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 288 288 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 307 307 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 350 350 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 366 366 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 372 372 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 395 395 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 402 402 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 408 408 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 412 412 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 418 418 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 423 423 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 460 460 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 475 475 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 622 622 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 627 627 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 636 636 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 648 648 N-LINKED (GLCNAC. . .) (POTENTIAL).

SQ SEQUENCE 867 AA; 98399 MW; 5F310146B8E8680 CRC64;

RESULT 7 ENV_HV123 STANDARD; PRT; 460 AA.

AC P12491; 01-OCT-1989 (Rel. 12, Created)

DT 01-OCT-1989 (Rel. 12, Last sequence update)

DT 15-JUN-1999 (Rel. 38, Last annotation update)

DE Envelope polyprotein GP160 precursor [Contains: Exterior membrane

DE Glycoprotein (GP120)].

Qy 1 KPVVSTQLL 10

Db 264 KPVVSTQLL 273

RESULT 7 ENV_HV123 STANDARD; PRT; 460 AA.

AC P12491; 01-OCT-1989 (Rel. 12, Created)

DT 01-OCT-1989 (Rel. 12, Last sequence update)

DT 15-JUN-1999 (Rel. 38, Last annotation update)

DE Envelope polyprotein GP160 precursor [Contains: Exterior membrane

DE Glycoprotein (GP120)].

Qy 1 KPVVSTQLL 10

Db 249 KPVVSTQLL 258

RESULT 8 ENV_HV1Y2 STANDARD; PRT; 843 AA.

AC P35951; 01-JUN-1994 (Rel. 29, Created)

DT 01-JUN-1994 (Rel. 29, Last sequence update)

DT 10-OCT-2003 (Rel. 42, Last annotation update)

DE Envelope polyprotein GP160 precursor [Contains: Exterior membrane

DE Glycoprotein (GP120); Transmembrane glycoprotein (GP41)].

GN Human immunodeficiency virus type 1 (YU-2 isolate) (HTV-1).

OS Viruses; Retroviridae; Lentivirus.

OC NCBI_TAXID=36377; 1

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CC -----

RT complete nucleotide sequence, genome organization, and biological properties of human immunodeficiency virus type 1 in vivo: evidence for limited defectiveness and complementation.";
 J. Virol. 60:6587-6600(1992).

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CC DR EMBL: M93258; -; NOT_ANNOTATED_CDS.

CC DR PIR: H44001; H44001.

CC DR PDB: 1GN1; 27-DEC-00.

CC DR InterPro: IPR00328; Env-GP1.

CC DR Pfam: PF00516; GP120.

CC DR AIDS; Coat protein; Polyprotein; Glycoprotein; Transmembrane; Signal; 3D-structure.

FT SIGNAL 1 29

FT CHAIN 30 489 EXTERIOR MEMBRANE GLYCOPROTEIN.

FT TRANSMEM 490 843 TRANSMEMBRANE GLYCOPROTEIN.

FT POTENTIAL.

FT DISULFID 738 755 BY SIMILARITY.

FT DISULFID 53 73 BY SIMILARITY.

FT DISULFID 118 201 BY SIMILARITY.

FT DISULFID 125 192 BY SIMILARITY.

FT DISULFID 130 155 BY SIMILARITY.

FT DISULFID 130 155 BY SIMILARITY.

FT DISULFID 214 243 BY SIMILARITY.

FT DISULFID 224 235 BY SIMILARITY.

FT DISULFID 292 326 BY SIMILARITY.

FT DISULFID 373 432 BY SIMILARITY.

FT CARBOHYD 380 405 BY SIMILARITY.

FT CARBOHYD 87 87 BY SIMILARITY.

FT CARBOHYD 129 129 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 135 135 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 138 138 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 154 154 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 158 158 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 184 184 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 193 193 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 230 230 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 237 237 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 258 258 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 272 272 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 285 285 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 291 291 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 297 297 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 327 327 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 351 351 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 381 381 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 389 389 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 395 395 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 400 400 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 435 435 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 450 450 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 598 598 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 603 603 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 612 612 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 624 624 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT SEQUENCE 803 843 AA; 95648 MW; C69DFD91C918B71 CRC64;

Query Match 93.5%; Score 43; DB 1; Length 843;
 best local similarity 90.0%; pred. No. 0.43; Gaps 0;
 matches 1; Mismatches 0; Indels 0;

1 KPVVSTQLL 10
 9; Conservative 1; Mismatches 0;
 248 RPVVSQTL 257

FT DISULFID 53 73 BY SIMILARITY.
 FT DISULFID 118 202 BY SIMILARITY.
 FT DISULFID 125 193 BY SIMILARITY.
 FT DISULFID 130 152 BY SIMILARITY.
 FT DISULFID 215 244 BY SIMILARITY.
 FT DISULFID 225 236 BY SIMILARITY.
 FT DISULFID 293 326 BY SIMILARITY.
 FT DISULFID 372 435 BY SIMILARITY.
 FT DISULFID 379 408 BY SIMILARITY.
 FT CARBOHYD 134 134 BY SIMILARITY.
 FT CARBOHYD 140 140 BY SIMILARITY.
 FT CARBOHYD 151 151 BY SIMILARITY.
 FT CARBOHYD 155 155 BY SIMILARITY.
 FT CARBOHYD 183 183 BY SIMILARITY.
 FT CARBOHYD 184 184 BY SIMILARITY.
 FT CARBOHYD 194 194 BY SIMILARITY.
 FT CARBOHYD 231 231 BY SIMILARITY.
 FT CARBOHYD 238 238 BY SIMILARITY.
 FT CARBOHYD 259 259 BY SIMILARITY.
 FT CARBOHYD 273 273 BY SIMILARITY.
 FT CARBOHYD 286 286 BY SIMILARITY.
 FT CARBOHYD 292 292 BY SIMILARITY.
 FT CARBOHYD 327 327 BY SIMILARITY.
 FT CARBOHYD 334 334 BY SIMILARITY.
 FT CARBOHYD 350 350 BY SIMILARITY.
 FT CARBOHYD 356 356 BY SIMILARITY.
 FT CARBOHYD 380 380 BY SIMILARITY.
 FT CARBOHYD 386 386 BY SIMILARITY.
 FT CARBOHYD 390 390 BY SIMILARITY.
 FT CARBOHYD 400 400 BY SIMILARITY.
 FT CARBOHYD 438 438 BY SIMILARITY.
 FT CARBOHYD 450 450 BY SIMILARITY.
 FT CARBOHYD 602 602 BY SIMILARITY.
 FT CARBOHYD 607 607 BY SIMILARITY.
 FT CARBOHYD 616 616 BY SIMILARITY.
 FT CARBOHYD 628 628 BY SIMILARITY.
 SQ SEQUENCE 847 AA; 96466 MW; CDLE33D/3A5BCAE CRC64;

Query Match 93.5%; Score 43; DB 1; Length 847;
 Best Local Similarity 90.0%; Pred. No. 0.43; Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQLL 10
 Db 249 RPPVSTQLL 258

RESULT 12

ENV_HV1JR STANDARD; PRT; 848 AA.

AC P24871;
 DT 01-FEB-1991 (Rel. 17, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)

DE Envelope polyprotein gp160 precursor [Contains: Exterior membrane glycoprotein (GPI20); Transmembrane glycoprotein (GP41)].
 DE ENV.

OS Human immunodeficiency virus type 1 (JRCSF isolate) (HIV-1).
 OC Viruses; Retroviridae; Retroviridae; Lentivirus.
 OC NCBI_TAXID=1688;

RN [1]
 RP SOURCE PRM N.A.
 RA Koyanagi S., Chen I.S.Y.;
 RL Submitted (DRC-1988) to the HIV data bank.

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CC -----

CC CCGMLB429; AAC03749.1; -.
 CC DR PDB; 1C84; 18-MAR-99.
 CC DR HIV; M88429; ENVUJRCSF.
 CC DR InterPro; IPR000128; Env GP41.
 CC DR InterPro; IPR000777; GP120.
 CC DR Pfam; PF00510; GP120; 1.
 CC DR Pfam; PF00517; GP41; 1.
 CC DR AIDS; Coat protein; Polyprotein; Glycoprotein; Transmembrane; Signal; 3D-Structure.
 CC KW SIGNAL 1 32
 CC FT CHAIN 33 503 EXTERIOR MEMBRANE GLYCOPROTEIN.
 CC FT CHAIN 504 848 TRANSMEMBRANE GLYCOPROTEIN.
 CC FT DISULFID 53 73 BY SIMILARITY.
 CC FT DISULFID 118 203 BY SIMILARITY.
 CC FT DISULFID 125 194 BY SIMILARITY.
 CC FT DISULFID 130 154 BY SIMILARITY.
 CC FT DISULFID 216 245 BY SIMILARITY.
 CC FT DISULFID 226 237 BY SIMILARITY.
 CC FT DISULFID 294 328 BY SIMILARITY.
 CC FT DISULFID 374 437 BY SIMILARITY.
 CC FT DISULFID 381 410 BY SIMILARITY.
 CC FT CARBOHYD 87 87 BY SIMILARITY.
 CC FT CARBOHYD 134 134 BY SIMILARITY.
 CC FT CARBOHYD 137 137 BY SIMILARITY.
 CC FT CARBOHYD 153 153 BY SIMILARITY.
 CC FT CARBOHYD 157 157 BY SIMILARITY.
 CC FT CARBOHYD 185 185 BY SIMILARITY.
 CC FT CARBOHYD 195 195 BY SIMILARITY.
 CC FT CARBOHYD 228 228 BY SIMILARITY.
 CC FT CARBOHYD 239 239 BY SIMILARITY.
 CC FT CARBOHYD 260 260 BY SIMILARITY.
 CC FT CARBOHYD 274 274 BY SIMILARITY.
 CC FT CARBOHYD 287 287 BY SIMILARITY.
 CC FT CARBOHYD 293 293 BY SIMILARITY.
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 CC FT CARBOHYD 329 329 BY SIMILARITY.
 CC FT CARBOHYD 336 336 BY SIMILARITY.
 CC FT CARBOHYD 352 352 BY SIMILARITY.
 CC FT CARBOHYD 382 382 BY SIMILARITY.
 CC FT CARBOHYD 388 388 BY SIMILARITY.
 CC FT CARBOHYD 392 392 BY SIMILARITY.
 CC FT CARBOHYD 403 403 BY SIMILARITY.
 CC FT CARBOHYD 440 440 BY SIMILARITY.
 CC FT CARBOHYD 453 453 BY SIMILARITY.
 CC FT CARBOHYD 603 603 BY SIMILARITY.
 CC FT CARBOHYD 608 608 BY SIMILARITY.
 CC FT CARBOHYD 617 617 BY SIMILARITY.
 CC FT CARBOHYD 629 629 BY SIMILARITY.
 CC FT CARBOHYD 808 808 BY SIMILARITY.
 CC SQ SEQUENCE 848 AA; 96475 MW; 20767F51227EC3F3 CRC64;

Query Match 93.5%; Score 43; DB 1; Length 848;
 Best Local Similarity 90.0%; Pred. No. 0.43; Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQLL 10
 Db 250 RPPVSTQLL 259

RESULT 13

ENV_HV1BB STANDARD; PRT; 851 AA.

AC P04882;
 DT 13-AUG-1987 (Rel. 05, Last sequence update)
 DT 13-AUG-1987 (Rel. 05, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)

DE Envelope polyprotein gp160 precursor [Contains: Exterior membrane glycoprotein (GPI20); Transmembrane glycoprotein (GP41)].
 DE ENV.

OS Human immunodeficiency virus type 1 (BH9 isolate) (HIV-1).
 OC Viruses; Retroviridae; Retroviridae; Lentivirus.

FT CARBOHYD 197 197 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 234 234 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 241 241 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 262 262 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 276 276 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 289 289 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 295 295 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 301 301 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 331 331 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 354 354 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 360 360 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 384 384 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 390 390 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 396 396 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 400 400 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 442 442 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 456 456 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 607 607 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 612 612 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 621 621 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 633 633 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 670 670 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 812 812 N-LINKED (GLCNAC. . .) (POTENTIAL).
 SQ SEQUENCE 852 AA; 97203 MW; 2BB866345DEC015F CRC64;

Query Match 93.5%; Score 43; DB 1; length 852;
 Best Local Similarity 90.0%; Pred. No. 0.44; 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQLL 10
 Db 252 RPVVSQQLL 261

RESULT 15

ENV_HVIEL STANDARD; PRT; 853 AA.
 AC P04581; ENV_HVIEL
 DT 13-AUG-1987 (Rel. 05, Created)
 DT 13-AUG-1987 (Rel. 05, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Envelope polyprotein GP60 precursor [Contains: Exterior membrane glycoprotein (GP120); Transmembrane glycoprotein (GP41)].
 DE ENV.
 OS Human immunodeficiency virus type 1 (HIV isolate) (HIV-1).
 OC Virtues; Retroviridae; Lentivirus.
 OX NCBI_TAXID=11689;
 RN [1] SEQUENCE FROM N.A.
 RP MEDLINE:86245056; PubMed=2424612;
 RA Alizon M., Wain-Hobson S., Montagnier L., Sonigo P.;
 RT "Genetic variability of the AIDS virus: nucleotide sequence analysis of two isolates from African patients.", Cell 46,63-74 (1986).
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FT CHAIN 32 508 EXTERIOR MEMBRANE GLYCOPROTEIN.
 FT CHAIN 509 853 TRANSMEMBRANE GLYCOPROTEIN.
 FT DISULFID 53 73 BY SIMILARITY.
 FT DISULFID 118 206 BY SIMILARITY.
 FT DISULFID 125 197 BY SIMILARITY.
 FT DISULFID 130 154 BY SIMILARITY.
 FT DISULFID 219 248 BY SIMILARITY.
 FT DISULFID 229 240 BY SIMILARITY.
 FT DISULFID 297 330 BY SIMILARITY.
 FT DISULFID 376 442 BY SIMILARITY.
 FT DISULFID 383 415 BY SIMILARITY.
 FT CARBOHYD 87 129 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 129 129 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 137 137 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 143 143 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 153 153 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 157 157 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 183 183 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 188 188 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 198 198 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 235 235 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 242 242 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 263 263 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 277 277 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 290 290 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 331 331 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 353 353 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 384 384 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 390 390 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 394 394 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 445 445 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 454 454 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 458 458 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 459 459 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 462 462 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 608 608 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 613 613 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 622 622 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 634 634 N-LINKED (GLCNAC. . .) (POTENTIAL).
 SQ SEQUENCE 853 AA; 96721 MW; F9CD866DA0D07A5 CRC64;

Query Match 93.5%; Score 43; DB 1; length 853;
 Best Local Similarity 90.0%; Pred. No. 0.44; 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQLL 10
 Db 253 RPVVSQQLL 262

Search completed: March 12, 2004, 14:24:18
 Job time : 12 secs

GenCore version 5.1.6
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Om protein - protein search, using sw model

Run on: March 12, 2004, 14:22:50 ; Search time 40 Seconds
(without alignments)
78.880 Million cell updates/sec

Title: PARKIN524.PEP
Perfect score: 46
Sequence: 1 KPVVSTQLL 10

Scoring table: BLASUM62
Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues
Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : SPREMBL 25:*

- 1: sp_archaea:*
- 2: sp_bacteria:*
- 3: sp_fungi:*
- 4: sp_human:*
- 5: sp_invertebrate:*
- 6: sp_mammal:*
- 7: sp_mhc:*
- 8: sp_organelle:*
- 9: sp_phage:*
- 10: sp_plant:*
- 11: sp_rabbit:*
- 12: sp_virus:*
- 13: sp_vertebrate:*
- 14: sp_unclassified:*
- 15: sp_virus:*
- 16: sp_bacteriaph:*
- 17: sp_archeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

RESULT 1
Q9QK19
ID Q9QK19
PRELIMINARY; PRT; 33 AA.
AC Q9QK19;
DT 01-MAY-2000 (TREMBrel, 13, Created)
DT 01-MAY-2000 (TREMBrel, 13, Last sequence update)
DT 01-JUN-2003 (TREMBrel, 24, Last annotation update)
DE Envelope glycoprotein (Fragment).
GN ENV.
OS Human immunodeficiency virus 1.
OC Viruses; Retroviridae; Lentivirus.
OX NCBI_TaxID=11676;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=22202v3.11;
RX MEDLINE=99094949; PubMed=998014;
RA Van Dyke R.B., Korber B.T., Popek E., Macken C., Widmayer S.M.,
RA Bardeguez A., Hansen I.C., Wiznia A., Luzuriaga K., Viscareillo R.R.,
RA Wolinsky S., The Ariel Core Investigators;
RT "The Ariel Project: A prospective cohort study of maternal-child
RT transmission of human immunodeficiency virus type 1 in the era of
RT maternal antiretroviral therapy.";
RL Infect. Dis. 179:319-328 (1999).
DR EMBL; AF12549; AFJ3327.1; -;
DR GO; GO:0019028; C:viral capsid; IEA.
DR GO; GO:0019031; C:viral envelope; IEA.
DR GO; GO:0005198; F:structural molecule activity; IEA.
DR InterPro; IPR00777; GPR20.
DR PFO016; GP120; 1.
KW AIDS; Coat protein; Glycoprotein.
FT NON_TER 1
SQ SEQUENCE 33 AA; 3615 MW; 7E5F0B44BAS35391 CRC64;

Query Match 100.0%; Score 46; DB 15; Length 33;
Best Local Similarity 100.0%; Pred. No. 0.016; Mismatches 0; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KPVVSTQLL 10
||||||| 100.0 99 15 089210 human immun

Db	13 KPVVSTQLL 22
RESULT 2	
Q9J414	PRELIMINARY; PRT; 35 AA.
ID Q9J414	
AC Q9J414;	
DT 01-OCT-2000 (TREMBLrel. 15, Created)	
DT 01-OCT-2000 (TREMBLrel. 15, Last sequence update)	
DT 01-JUN-2003 (TREMBLrel. 24, Last annotation update)	
DE Truncated envelope glycoprotein (Fragment).	
GN ENV.	
OS Human immunodeficiency virus 1.	
OC Viruses; Retroviroviridae; Lentivirus.	
OX NCBI_TAXID=11676;	
RP [1]	
SEQUENCE FROM N.A.	
STRAIN=TB24;	
MEDLINE=20091829; PubMed=1103611;	
RA Collins K.R., Mayanja-Kizza H., Sullivan B.A., Quinones-Mateu M.E.,	
RT "Greater diversity of HIV-1 quasispecies in HIV-infected individuals with active tuberculosis";	
RL J. Acquir. Immune Defic. Syndr. 24:408-417(2000).	
DR EMBL; AF201787; AACF1854.1; -;	
DR GO; GO:0019031; C:viral envelope; IEA.	
DR GO; GO:005198; F:structural molecule activity; IEA.	
DR InterPro; IPR000777; GP120.	
DR Pfam; PF00516; GP120.1.	
DR AIDS; Coat protein; Envelope protein; Glycoprotein.	
FT NON_TER 1 1	
SQ SEQUENCE 35 AA; 3497 MW; F424000992318A39 CRC64;	
Query Match Best Local Similarity 100.0%; Score 46; DB 15; Length 35; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY 1 KPVVSTQLL 10	
Db 18 KPVVSTQLL 27	
RESULT 3	
Q9J4HB	PRELIMINARY; PRT; 74 AA.
ID Q9J4HB	
AC Q9J4HB;	
DT 01-OCT-2000 (TREMBLrel. 15, Created)	
DT 01-OCT-2000 (TREMBLrel. 15, Last sequence update)	
DT 01-JUN-2003 (TREMBLrel. 24, Last annotation update)	
DE Truncated envelope glycoprotein (Fragment).	
GN ENV.	
OS Human immunodeficiency virus 1.	
OC Viruses; Retroviridae; Lentivirus.	
OX NCBI_TAXID=11676;	
RP [1]	
SEQUENCE FROM N.A.	
STRAIN=TB24;	
MEDLINE=20091829; PubMed=1103561;	
RA Collins K.R., Mayanja-Kizza H., Sullivan B.A., Quinones-Mateu M.E.,	
RT "Greater diversity of HIV-1 quasispecies in HIV-infected individuals with active tuberculosis";	
RL J. Acquir. Immune Defic. Syndr. 24:408-417(2000).	
DR EMBL; AF201793; AACF1860.1; -;	
DR GO; GO:0019028; C:viral capsid; IEA.	
DR GO; GO:0019031; C:viral envelope; IEA.	
DR GO; GO:005198; F:structural molecule activity; IEA.	
DR InterPro; IPR000777; GP120.	
DR AIDS; Coat protein; Envelope protein; Glycoprotein.	
FT NON_TER 1 1	
SQ SEQUENCE 85 AA; 9372 MW; 70F92F1C6393D580 CRC64;	
Query Match Best Local Similarity 100.0%; Score 46; DB 15; Length 85; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY 1 KPVVSTQLL 10	
Db 7 KPVVSTQLL 16	
RESULT 5	
Q8J9CB	PRELIMINARY; PRT; 85 AA.
ID Q8J9CB	
AC Q8J9CB;	
DT 01-OCT-2002 (TREMBLrel. 22, Created)	
DT 01-OCT-2002 (TREMBLrel. 22, Last sequence update)	
DT 01-JUN-2003 (TREMBLrel. 24, Last annotation update)	
DE Envelope glycoprotein (Fragment).	
GN ENV.	
OS Human immunodeficiency virus 1.	
OC Viruses; Retroviroviridae; Lentivirus.	
OX NCBI_TAXID=11676;	
RP [1]	
SEQUENCE FROM N.A.	
STRAIN=ARBL68;	
RA Ceballos A., Rabinovich R.D., Avila M.M., Martinez Peralta L.,	
RT "Molecular study of an HIV-1 transmission chain 7 years after suspected events";	
RT Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.	
DR EMBL; AF490623; AAM90911.1; -;	
DR GO; GO:0019028; C:viral capsid; IEA.	
DR GO; GO:0019031; C:viral envelope; IEA.	
DR GO; GO:005198; F:structural molecule activity; IEA.	
SQ SEQUENCE 74 AA; 8011 MW; 5KA00D31924528A CRC44;	

DR GO:0005198; F:structural molecule activity; IEA.
 DR InterPro; IPR00777; GP120.
 RC STRAIN=subtype E;
 RX PMID=940806; PubMed=1040629;
 RA Kato K., Shimo T., Kusugawa S., Sato H., Nohtomi K., Shibamura K.,
 RA Hien N.T., Chi P.K., Lien T.X., Anh M.H., Long H.T.,
 RA Bunyarkasotin G., Fukushima Y., Honda M., Wasi C., Yamazaki S.,
 RA Nagai Y., Takebe Y.,
 RA "Genetic similarity of HIV Type 1 subtype E in a recent outbreak among
 RT injecting drug users in Northern Vietnam to strains in Guangxi
 RT province of Southern China.,"
 RL AIDS Res. Hum. Retroviruses 15:1157-1168(1999).
 DR EMBL; AB025097; BAM83669; 1.-
 DR GO; GO:0019028; C:viral capsid; IEA.
 DR GO; GO:019031; C:viral envelope; IEA.
 DR GO; GO:0005198; F:structural molecule activity; IEA.
 DR InterPro; IPR00777; GP120.
 DR Pfam; PF00516; GP120; 1.
 DR AIDS; Coat protein; Glycoprotein.
 RN FT NON TER 1 1
 PT NON TER 99 99
 SQ SEQUENCE 99 AA; 11109 MW; AAB1A8E0DB38E13 CRC64;
 DR Query Match 100.0%; Score 46; DB 15; Length 99;
 DR Best Local Similarity 100.0%; Pred. No. 0.05; 0; Mismatches 0; Indels 0; Gaps 0;
 DR Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 DR Qy 1 KPVVSTQLL 10
 DR Db 7 KPVVSTQLL 16

RESULT 6

Q90UB9 PRELIMINARY; PRT; 95 AA.
 ID Q90UB9
 AC Q90UB9;
 DT 01-DEC-2001. (TrEMBrel. 19, Last sequence update)
 DT 01-DEC-2001 (TrEMBrel. 19, Last annotation update)
 DE Envelope glycoprotein (Fragment).
 GN ENV.
 OS Human immunodeficiency virus 1.
 OC Viruses; Retroviridae; Lentivirus.
 OC NCBI_TaxID=11676;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21192328; PubMed=11294662;
 RA Gunthard H.F., Havlir D.V., Fischl S., Zhang Z.-Q., Bron J.,
 RA Mellors J., Gulick R., Frost S.D., Leigh Brown A.J., Schleif W.,
 RA Valentine F., Jonas L., Meibom A., Ignacio C.C., Isaacs R.,
 RA Gamarni R., Emini E., Haase A., Richman D.D., Wong J.K.;
 RT "Residual human immunodeficiency virus (HIV) type 1 RNA and DNA in
 RT lymph nodes and HIV RNA in genital secretions and in cerebrospinal
 RT fluid after suppression of viremia for 2 years.,"
 RL J. Infect. Dis. 183:1318-1327(2001).
 DR EMBL; AF337312; AAK56233; 1.-
 DR GO; GO:0019028; C:viral capsid; IEA.
 DR GO; GO:0019031; C:viral envelope; IEA.
 DR GO; GO:0005198; F:structural molecule activity; IEA.
 DR InterPro; IPR00777; GP120.
 DR Pfam; PF00516; GP120; 1.
 DR AIDS; Coat protein; Glycoprotein.
 RN FT NON TER 1 1
 PT NON TER 95 95
 SQ SEQUENCE 95 AA; 10507 MW; D5A14913D1093609 CRC64;

Query Match 100.0%; Score 46; DB 15; Length 95;
 Best Local Similarity 100.0%; Pred. No. 0.048; 0; Mismatches 0; Indels 0; Gaps 0;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQLL 10
 ID Q90UB9
 AC Q90UB9;
 DT 01-MAY-2000 (TrEMBrel. 13, Last sequence update)
 DT 01-MAY-2000 (TrEMBrel. 13, Last annotation update)
 DE Envelope glycoprotein gp120 C2V3 region (Fragment).
 GN ENV.
 OS Human immunodeficiency virus 1.
 OC Viruses; Retroviridae; Lentivirus.
 OC NCBI_TaxID=11676;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=subtype E;
 RX MEDLINE=99408506; PubMed=10490629;
 RA Kato K., Shimo T., Kusugawa S., Sato H., Nohtomi K., Shibamura K.,
 RA Hien N.T., Chi P.K., Lien T.X., Anh M.H., Long H.T.,
 RA Bunyarkasotin G., Fukushima Y., Honda M., Wasi C., Yamazaki S.,
 RA Nagai Y., Takebe Y.,
 RT "Genetic similarity of HIV Type 1 subtype E in a recent outbreak among
 RT injecting drug users in Northern Vietnam to strains in Guangxi
 RT province of Southern China.,"
 RL AIDS Res. Hum. Retroviruses 15:1157-1168(1999).
 DR EMBL; AB025084; BAM83656; 1.-
 DR GO; GO:0019028; C:viral capsid; IEA.
 DR GO; GO:0019031; C:viral envelope; IEA.
 DR GO; GO:0005198; F:structural molecule activity; IEA.
 DR InterPro; IPR00777; GP120.
 DR Pfam; PF00516; GP120; 1.
 DR AIDS; Coat protein; Glycoprotein.
 RN FT NON TER 1 1
 PT NON TER 99 99
 SQ SEQUENCE 99 AA; 10954 MW; 504F1205BBF2D1CS CRC64;

Query Match 100.0%; Score 46; DB 15; Length 99;
 Best Local Similarity 100.0%; Pred. No. 0.05; 0; Mismatches 0; Indels 0; Gaps 0;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPVVSTQLL 10
 ID Q90UB9
 AC Q90UB9;
 DT 01-JUN-2003 (TrEMBrel. 24, Last annotation update)
 DE Envelope glycoprotein gp120 C2V3 region (Fragment).
 GN ENV.
 OS Human immunodeficiency virus 1.
 OC Viruses; Retroviridae; Lentivirus.
 OC NCBI_TaxID=11676;
 RN [1]

RESULT 9

ID	091506	PRELIMINARY;	PRT;	99 AA.
AC	091506;			
DT	01-NOV-1998	(TREMBrel. 08, Created)		
DT	01-NOV-1998	(TREMBrel. 08, Last sequence update)		
DR	01-JUN-2003	(TREMBrel. 24, Last annotation update)		
GN	Env.			
OS	Human immunodeficiency virus 1.			
OC	Viruses; Retroviridae; Lentivirus.			
OX	NCBI_TaxID=11676;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	STRAIN=subtype E;			
RX	MEDLINE=99146664; PubMed=10024059;			
RA	Kusagawa S., Sato H., Kato K., Nohomii K., Shino T., Samrith C., Leng H.B., Phalla T., Heng M.B., Takebe Y.,			
RT	"HIV type 1 env subtype E in Cambodia."			
RL	AIDS Res. Hum. Retroviruses 15:91-94(1999).			
DR	EMBL: AB013126; BAA3687.1; -;			
DR	GO; GO:0019028; C: viral capsid; IEA.			
DR	GO; GO:0019031; C: viral envelope; IEA.			
DR	GO; GO:0005198; F: structural molecule activity; IEA.			
DR	IntePro; IPR000777; GPI20.			
DR	Pfam; PF00516; GP120.			
KW	AIDS; Coat protein; Glycoprotein.			
FT	NON_TER 1			
FT	NON_TER 99			
SQ	SEQUENCE 99 AA; 10927 MW; 7735643298F2D1DB CRC64;			
Query Match	100.0%; Score 46; DB 15; Length 99;			
Best Local Similarity	100.0%; Pred. No. 0.05;			
Matches	10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
QY	1 KPVVSTQIIL 10			
Db	3 KPVVSTQIIL 12			

RESULT 10

ID	079317	PRELIMINARY;	PRT;	99 AA.
AC	079317;			
DT	01-NOV-1996	(TREMBrel. 01, Created)		
DT	01-NOV-1996	(TREMBrel. 01, Last sequence update)		
DT	01-JUN-2003	(TREMBrel. 24, Last annotation update)		
DR	Envelope glycoprotein (Fragment).			
GN	ENV.			
OS	Human immunodeficiency virus 1.			
OC	Viruses; Retroviridae; Lentivirus.			
OX	NCBI_TaxID=11676;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	STRAIN=subtype E;			
RX	MEDLINE=9908506; PubMed=1040629;			
RA	Kusagawa S., Sato H., Nohomii K., Shibamura K., Kato K., Shioi T., Chi P.K., Lien T.X., Anh M.H., Long H.T.,			
RA	Bunyakaysontin G., Fukushima Y., Honda M., Wasi C., Yamazaki S., Nagai Y., Takebe Y.,			
RT	"Genetic similarity of HIV Type 1 subtype E in a recent outbreak among injecting drug users in Northern Vietnam to strains in Guangxi province of Southern China".			
RT	AIDS Res. Hum. Retroviruses 15:1157-1168(1999).			
RL	EMBL: AB025085; BAA83657.1; -;			
DR	GO; GO:0019028; C: viral capsid; IEA.			
DR	GO; GO:0019031; C: viral envelope; IEA.			
DR	GO; GO:0005198; F: structural molecule activity; IEA.			
DR	IntePro; IPR000777; GPI20.			
DR	Pfam; PF00516; GP120.			
KW	AIDS; Coat protein; Glycoprotein.			
FT	NON_TER 1			
FT	NON_TER 99			
SQ	SEQUENCE 99 AA; 10978 MW; B544B34E46A5A2C3 CRC64;			
Query Match	100.0%; Score 46; DB 15; Length 99;			
Best Local Similarity	100.0%; Pred. No. 0.05;			
Matches	10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
QY	1 KPVVSTQIIL 10			
Db	3 KPVVSTQIIL 12			

RESULT 11

ID	090779	PRELIMINARY;	PRT;	99 AA.
AC	090779;			
DT	01-MAY-2000	(TREMBrel. 13, Created)		
DT	01-MAY-2000	(TREMBrel. 13, Last sequence update)		
DR	Env. envelope glycoprotein gp120 C2V3 region (Fragment).			
GN	ENV.			
OS	Human immunodeficiency virus 1.			
OC	Viruses; Retroviridae; Lentivirus.			
OX	NCBI_TaxID=11676;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	STRAIN=subtype E;			
RX	MEDLINE=9908506; PubMed=1040629;			
RA	Hien N.T., Chi P.K., Lien T.X., Anh M.H., Long H.T.,			
RA	Bunyakaysontin G., Fukushima Y., Honda M., Wasi C., Yamazaki S., Nagai Y., Takebe Y.,			
RT	"Genetic similarity of HIV Type 1 subtype E in a recent outbreak among injecting drug users in Northern Vietnam to strains in Guangxi province of Southern China".			
RT	AIDS Res. Hum. Retroviruses 15:1157-1168(1999).			
RL	EMBL: AB025085; BAA83657.1; -;			
DR	GO; GO:0019028; C: viral capsid; IEA.			
DR	GO; GO:0019031; C: viral envelope; IEA.			
DR	GO; GO:0005198; F: structural molecule activity; IEA.			
DR	IntePro; IPR000777; GPI20.			
DR	Pfam; PF00516; GP120.			
KW	AIDS; Coat protein; Glycoprotein.			
FT	NON_TER 1			
FT	NON_TER 99			
SQ	SEQUENCE 99 AA; 10978 MW; B544B34E46A5A2C3 CRC64;			
Query Match	100.0%; Score 46; DB 15; Length 99;			
Best Local Similarity	100.0%; Pred. No. 0.05;			
Matches	10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
QY	1 KPVVSTQIIL 10			
Db	3 KPVVSTQIIL 12			

RESULT 12

ID	091507	PRELIMINARY;	PRT;	99 AA.
AC	091507			
DT	01-NOV-1998	(TREMBrel. 08, Created)		
DT	01-NOV-1998	(TREMBrel. 08, Last sequence update)		
DR	Env. envelope glycoprotein (Fragment).			
GN	ENV.			
OS	Human immunodeficiency virus 1.			
OC	Viruses; Retroviridae; Lentivirus.			
OX	NCBI_TaxID=11676;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	STRAIN=subtype E;			
RX	MEDLINE=99146664; PubMed=10024059;			

RA	Kusagawa S., Sato H., Kato K., Nohomi K., Shiino T., Samrith C., Lang H.B., Phalla T., Heng M.B., Takebe Y.,	OC	Human immunodeficiency virus 1.
RA	"HIV type 1 env subtype E in Cambodia."	OC	Viruses; Retroviridae; Lentivirus.
RT		OX	NCBI_TaxID=11676;
RL	AIDS Res. Hum. Retroviruses 15:91-94(1999).	RN	[1]
DR	EMBL; AB01327; BA33681; -	RP	SEQUENCE FROM N.A.
DR	GO; GO:0019028; C:viral capsid; IEA.	RC	STRAIN=subtype E;
DR	GO; GO:0019031; C:viral envelope; IEA.	RX	MEDLINE=9914664; PubMed=1024059;
DR	GO; GO:0019038; F:structural molecule activity; IEA.	RA	Kusagawa S., Sato H., Kato K., Nohomi K., Shiino T., Samrith C., Lang H.B., Phalla T., Heng M.B., Takebe Y.,
DR	InterPro; IPR000777; GP120.	RT	"HIV type 1 env subtype E in Cambodia."
DR	Pfam; PF00516; GP120; 1.	RL	AIDS Res. Hum. Retroviruses 15:91-94(1999).
KW	AIDS; Coat protein; Glycoprotein.	DR	EMBL; AB01321; BA33683; 1;
FT	NON_TER 1	DR	GO; GO:0019028; C:viral capsid; IEA.
FT	NON_TER 99 99	DR	GO; GO:0019031; C:viral envelope; IEA.
FT	SEQUENCE 99 AA; 10966 MW; 92C67C25FB0731C0 CRC64;	DR	GO; GO:0019038; F:structural molecule activity; IEA.
Qy	1 KPVNSTQLL 10	Db	3 KPVNSTQLL 12
Query Match	100.0%; Score 46; DB 15; Length 99;	Best Local Similarity	100.0%; Pred. No. 0.05; 0; Mismatches 0; Indels 0; Gaps 0;
Matches	10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Best Local Similarity	100.0%; Pred. No. 0.05; 0; Mismatches 0; Indels 0; Gaps 0;
RESULT 13		Matches	10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
ID 091505	PRELIMINARY; PRT; 99 AA.	Qy	1 KPVNSTQLL 10
AC 091505;	01-NOV-1998 (TREMBLrel. 08, Created)	Db	3 KPVNSTQLL 12
DT 01-NOV-1998 (TREMBLrel. 08, Last sequence update)		Query Match	100.0%; Score 46; DB 15; Length 99;
DT 01-MOV-1998 (TREMBLrel. 24, Last annotation update)		Best Local Similarity	100.0%; Pred. No. 0.05; 0; Mismatches 0; Indels 0; Gaps 0;
DT 01-JUN-2003 (TREMBLrel. 24, Last annotation update)		Matches	10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DR Envelope glycoprotein (Fragment).		Qy	1 KPVNSTQLL 10
DR Envelope glycoprotein (Fragment).		Db	3 KPVNSTQLL 12
GN ENV.		Query Match	100.0%; Score 46; DB 15; Length 99;
OS Human immunodeficiency virus 1.		Best Local Similarity	100.0%; Pred. No. 0.05; 0; Mismatches 0; Indels 0; Gaps 0;
OC Viruses; Retroviridae; Lentivirus.		Matches	10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OC Viruses; Retroviridae; Lentivirus.		Qy	1 KPVNSTQLL 10
OX NCBI_TaxID=11676;		Db	3 KPVNSTQLL 12
RN [1]		Query Match	100.0%; Score 46; DB 15; Length 99;
RP SEQUENCE FROM N.A.		Best Local Similarity	100.0%; Pred. No. 0.05; 0; Mismatches 0; Indels 0; Gaps 0;
RC STRAIN=subtype E;		Matches	10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
RX MEDLINE=9914664; PubMed=10024059;		Qy	1 KPVNSTQLL 10
RA Kubagawa S., Sato H., Kato K., Nohomi K., Shiino T., Samrith C., Lang H.B., Phalla T., Heng M.B., Takebe Y.,		Db	3 KPVNSTQLL 12
RA "HIV type 1 env subtype E in Cambodia."		Query Match	100.0%; Score 46; DB 15; Length 99;
RA Leng H.B., Phalla T., Heng M.B., Takebe Y.,		Best Local Similarity	100.0%; Pred. No. 0.05; 0; Mismatches 0; Indels 0; Gaps 0;
RA AIDS Res. Hum. Retroviruses 15:91-94(1999).		Matches	10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
RT STRAIN=subtype E;		Qy	1 KPVNSTQLL 10
RL AIDS Res. Hum. Retroviruses 15:91-94(1999).		Db	3 KPVNSTQLL 12
DR GO:0019028; C:viral capsid; IEA.		Query Match	100.0%; Score 46; DB 15; Length 99;
DR GO:0019031; C:viral envelope; IEA..		Best Local Similarity	100.0%; Pred. No. 0.05; 0; Mismatches 0; Indels 0; Gaps 0;
DR GO; GO:0019038; F:structural molecule activity; IEA..		Matches	10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DR InterPro; IPR000777; GP120.		Qy	1 KPVNSTQLL 10
DR Pfam; PF00516; GP120; 1.		Db	3 KPVNSTQLL 12
KW AIDS; Coat protein; Glycoprotein.		Query Match	100.0%; Score 46; DB 15; Length 99;
FT NON_TER 1		Best Local Similarity	100.0%; Pred. No. 0.05; 0; Mismatches 0; Indels 0; Gaps 0;
FT NON_TER 99 99		Matches	10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
FT SEQUENCE 99 AA; 11007 MW; 3BD7758D878C2357 CRC64;		Qy	1 KPVNSTQLL 10
Qy Query Match	100.0%; Score 46; DB 15; Length 99;	Db	3 KPVNSTQLL 12
Qy Best Local Similarity	100.0%; Pred. No. 0.05; 0; Mismatches 0; Indels 0; Gaps 0;	Query Match	100.0%; Score 46; DB 15; Length 99;
Qy Matches	10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Best Local Similarity	100.0%; Pred. No. 0.05; 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 KPVNSTQLL 10		Matches	10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db 3 KPVNSTQLL 12		Qy	1 KPVNSTQLL 10
RESULT 14		Db	3 KPVNSTQLL 12
091502	PRELIMINARY; PRT; 99 AA.	Query Match	100.0%; Score 46; DB 15; Length 99;
ID 091502;	01-NOV-1998 (TREMBLrel. 08, Created)	Best Local Similarity	100.0%; Pred. No. 0.05; 0; Mismatches 0; Indels 0; Gaps 0;
AC 091502;	01-NOV-1998 (TREMBLrel. 08, Last sequence update)	Matches	10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DT 01-JUN-2003 (TREMBLrel. 24, Last annotation update)		Qy	1 KPVNSTQLL 10
DB Envelope glycoprotein (Fragment).		Db	3 KPVNSTQLL 12
GN ENV.		Query Match	100.0%; Score 46; DB 15; Length 99;
OS Human immunodeficiency virus 1.		Best Local Similarity	100.0%; Pred. No. 0.05; 0; Mismatches 0; Indels 0; Gaps 0;
OC Viruses; Retroviridae; Lentivirus.		Matches	10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
RC STRAIN=subtype E.		Qy	1 KPVNSTQLL 10
RC STRAIN=subtype E;		Db	3 KPVNSTQLL 12
RX MEDLINE=9914664; PubMed=1024059;		Query Match	100.0%; Score 46; DB 15; Length 99;
RA Kubagawa S., Sato H., Kato K., Nohomi K., Shiino T., Samrith C., Lang H.B., Phalla T., Heng M.B., Takebe Y.,		Best Local Similarity	100.0%; Pred. No. 0.05; 0; Mismatches 0; Indels 0; Gaps 0;
RA "HIV type 1 env subtype E in Cambodia."		Matches	10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
RA Leng H.B., Phalla T., Heng M.B., Takebe Y.,		Qy	1 KPVNSTQLL 10
RA AIDS Res. Hum. Retroviruses 15:91-94(1999).		Db	3 KPVNSTQLL 12

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